

Regional Transportation Plan



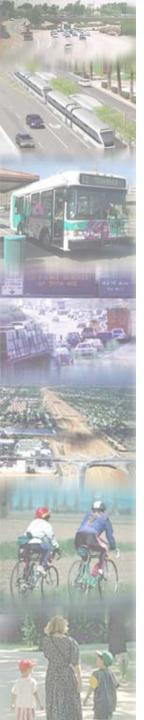
Let's Keep Moving!





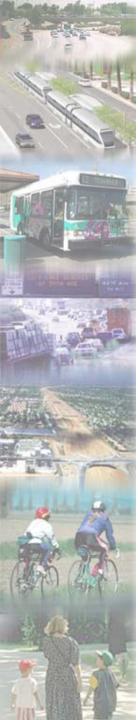
What we are going to cover.....

- What is the Regional Transportation Plan (RTP)?
- What are the Growth & Transportation Challenges?
- Overview RTP Background Studies
- Overview RTP Methodology
- Schedule



What is the Regional Transportation Plan?

- Largest planning initiative in the region in 40 years.
- Blueprint for regional transportation investments for next 20 years.
- Policy framework that identifies transportation priorities.
- Plan guided by performance goals.



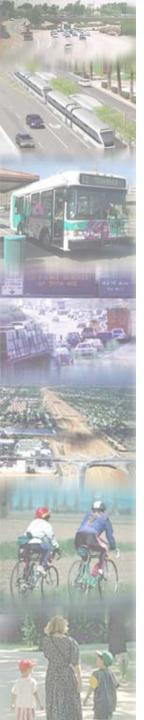
...The Plan must provide choices





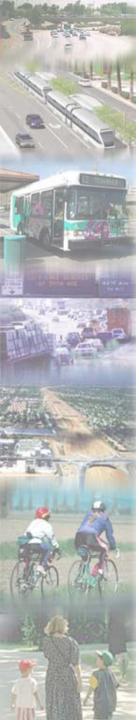






Why is the Plan necessary?

- The sales tax is expiring in 2005, leaving us without a major source of funding for transportation.
- Population growth is inevitable. Projections show 6 million people in the Valley by 2030.
- Congestion costs time and money. The ability to move people and goods is the backbone of the economy.

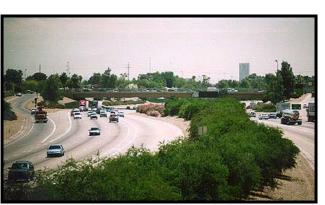


What are the Growth & Transportation Challenges?



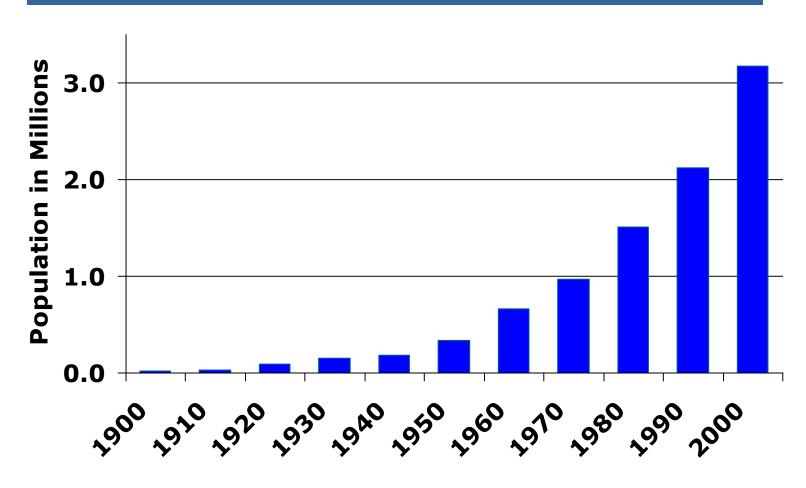


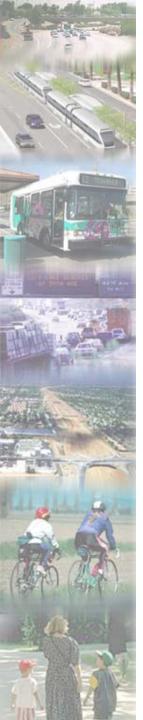






Maricopa County's population grew by about 45% each decade since 1960.

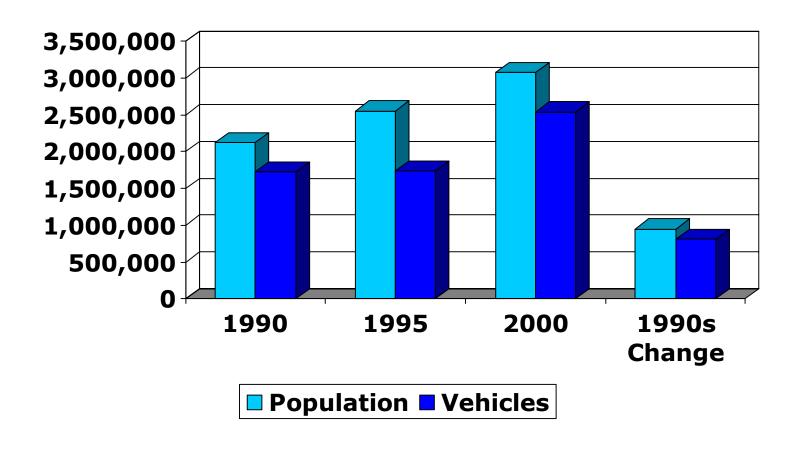


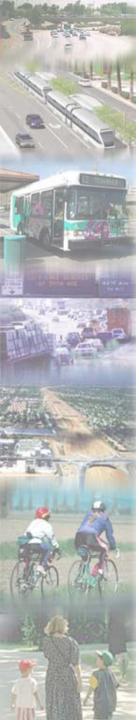


Population & Vehicle Growth: 1990 to 2000

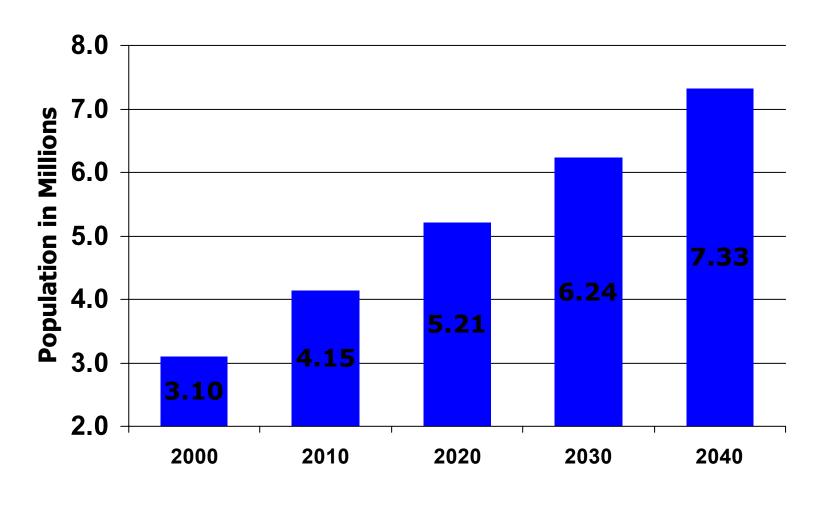
Population Change 950,000

Registered Vehicles Change...... 810,000





The region will continue to grow.

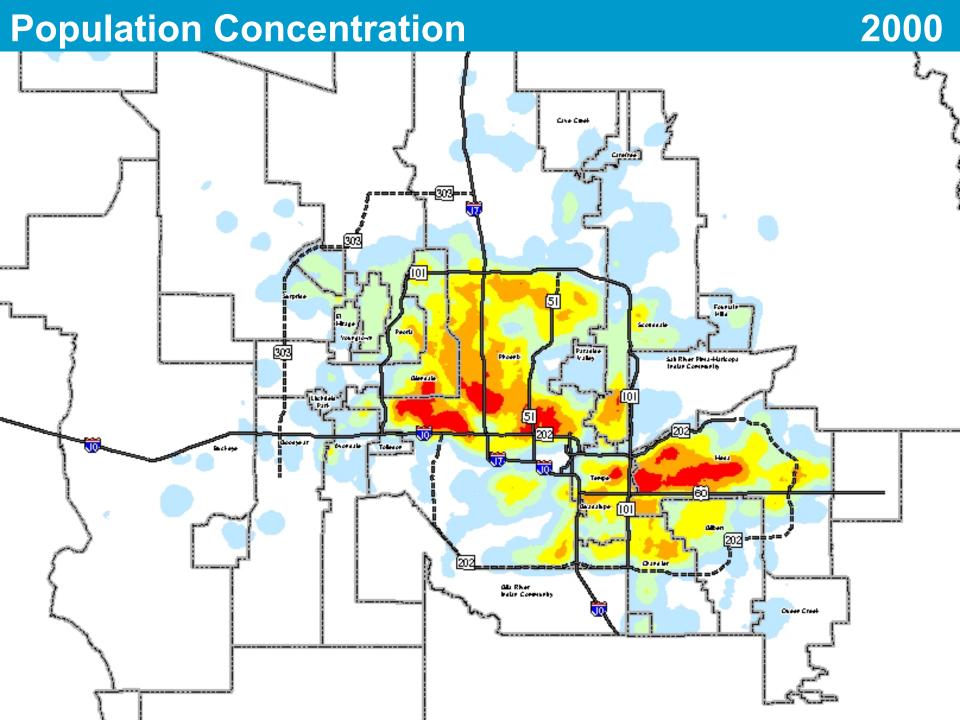


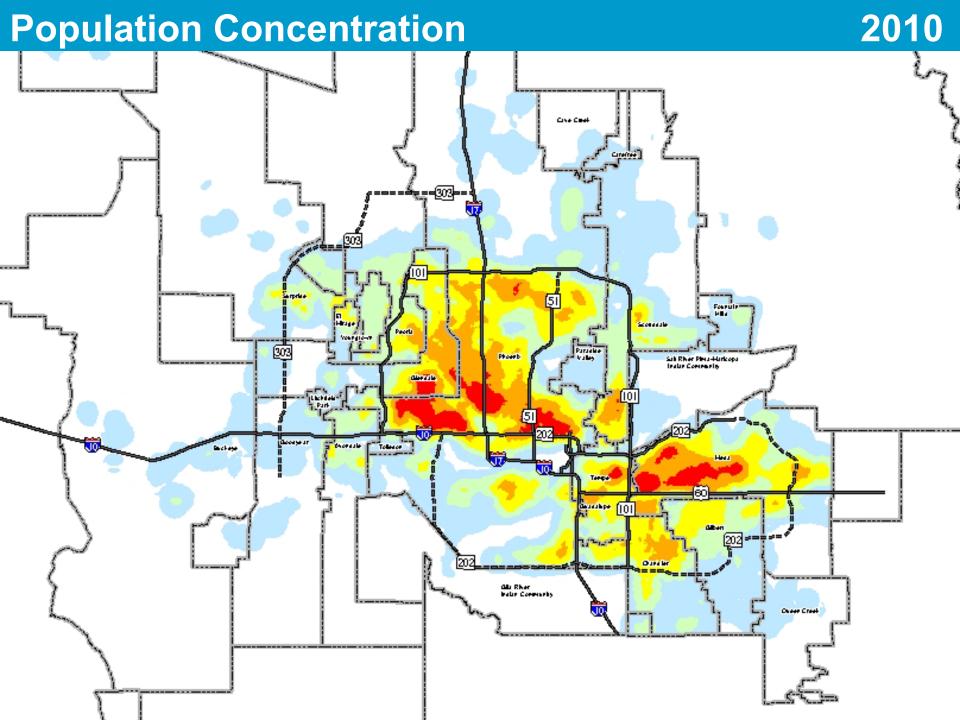


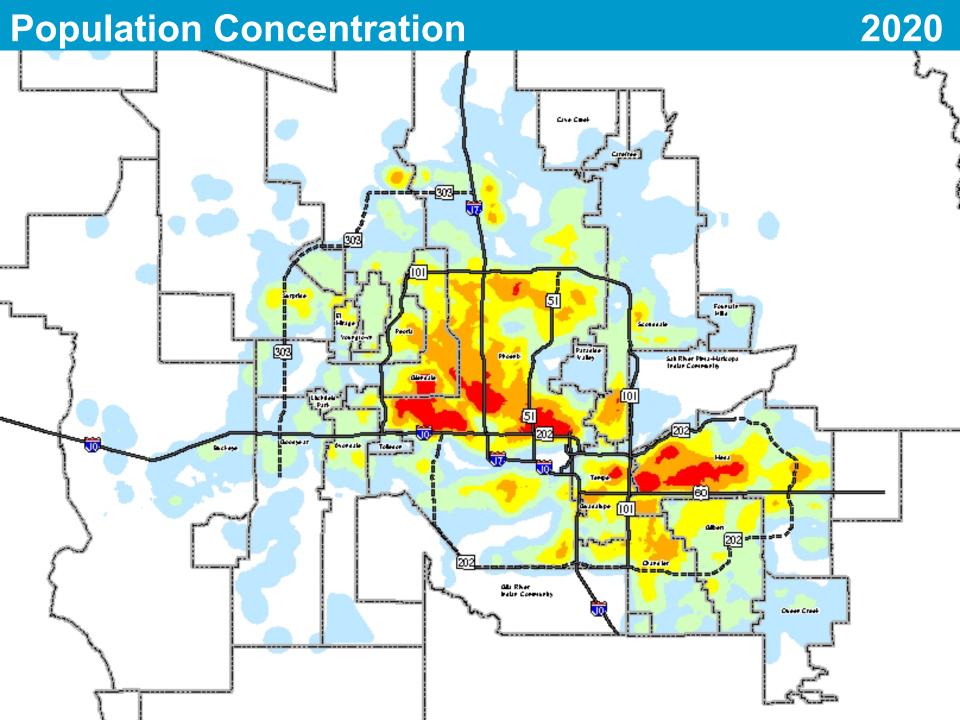
Where will population growth occur?

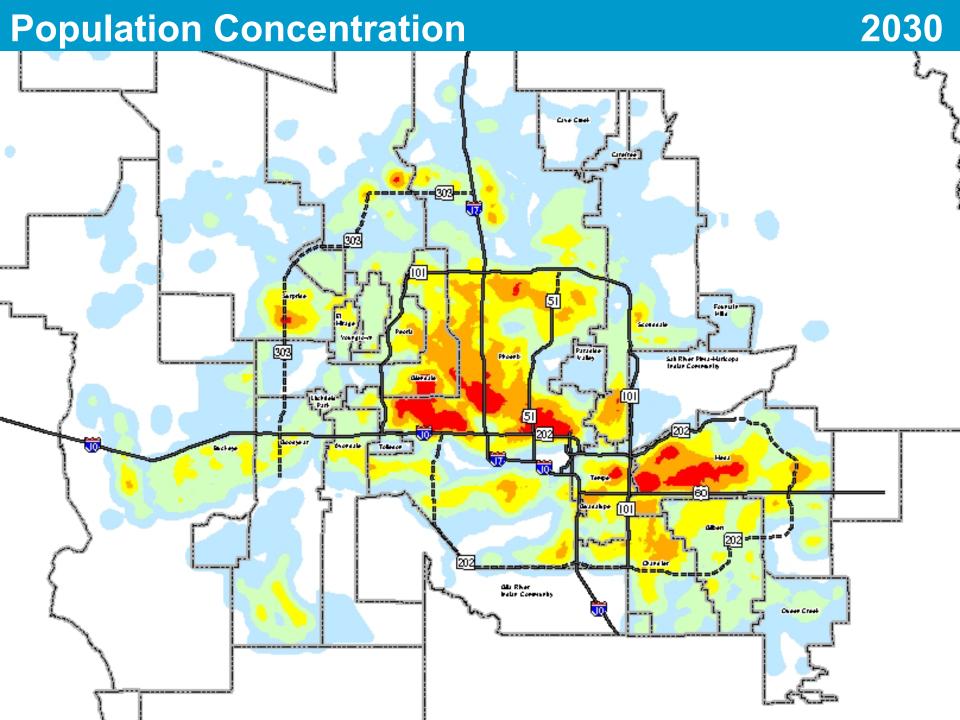


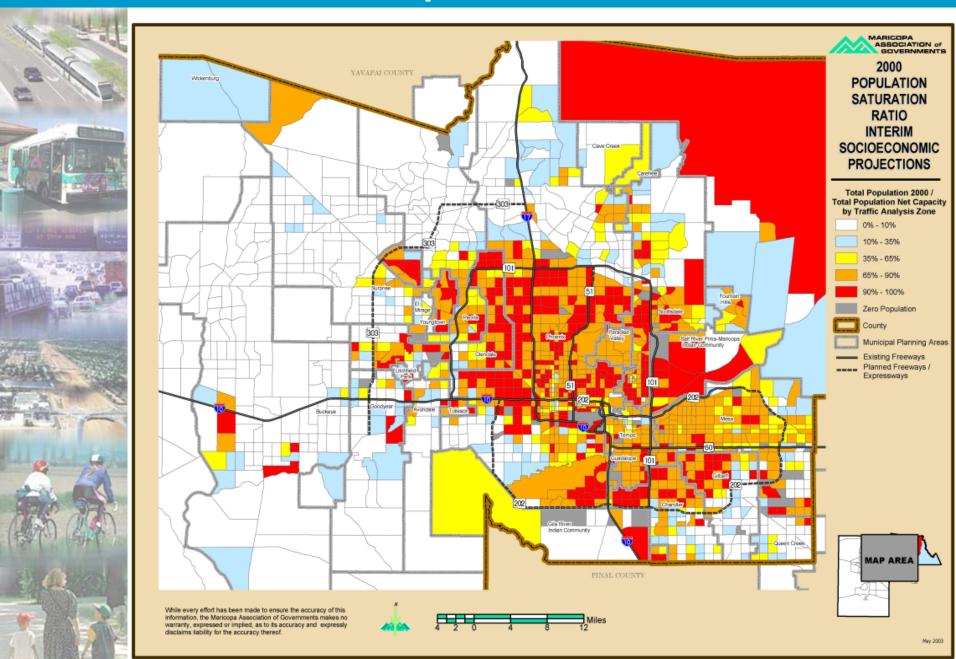


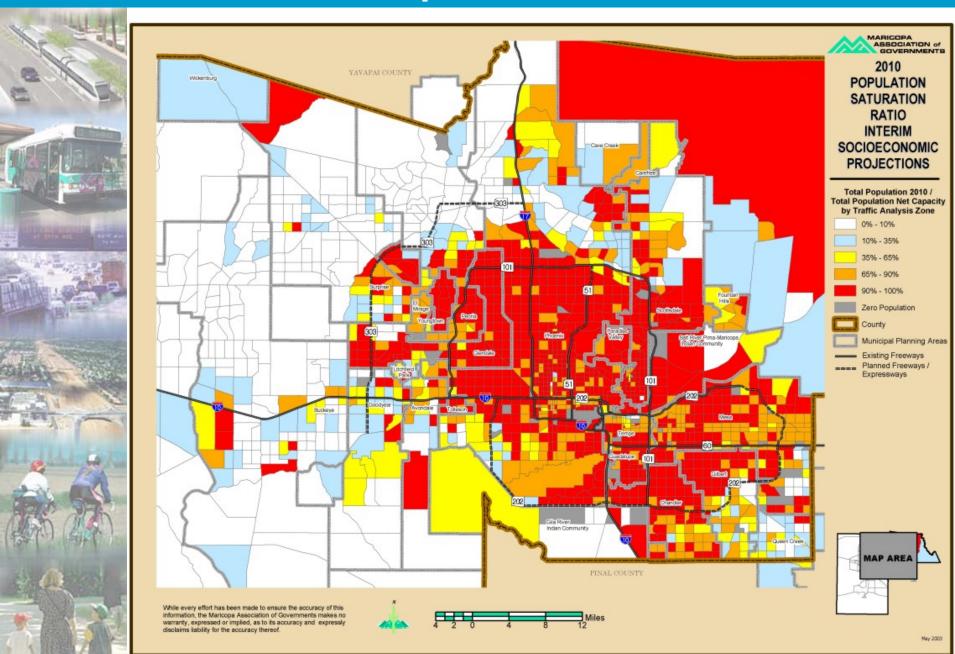


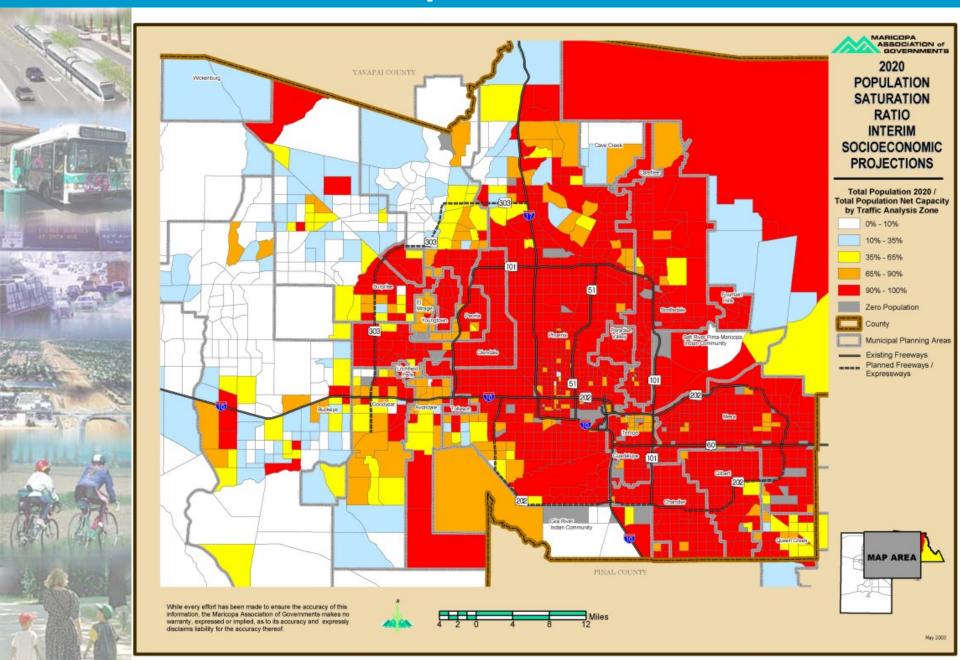


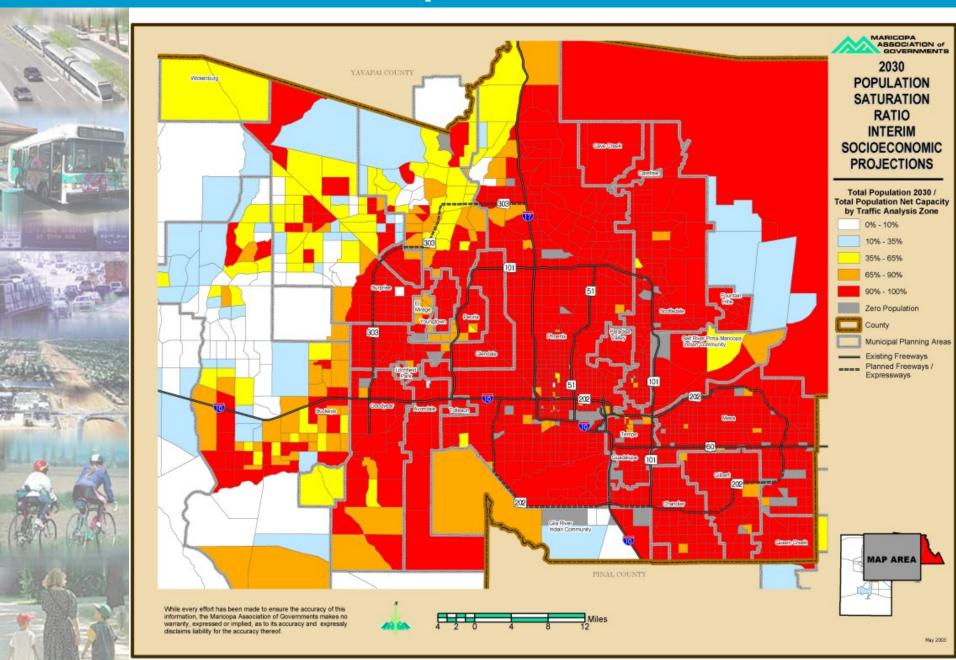


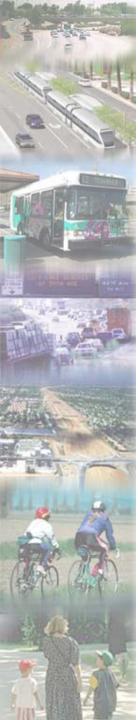












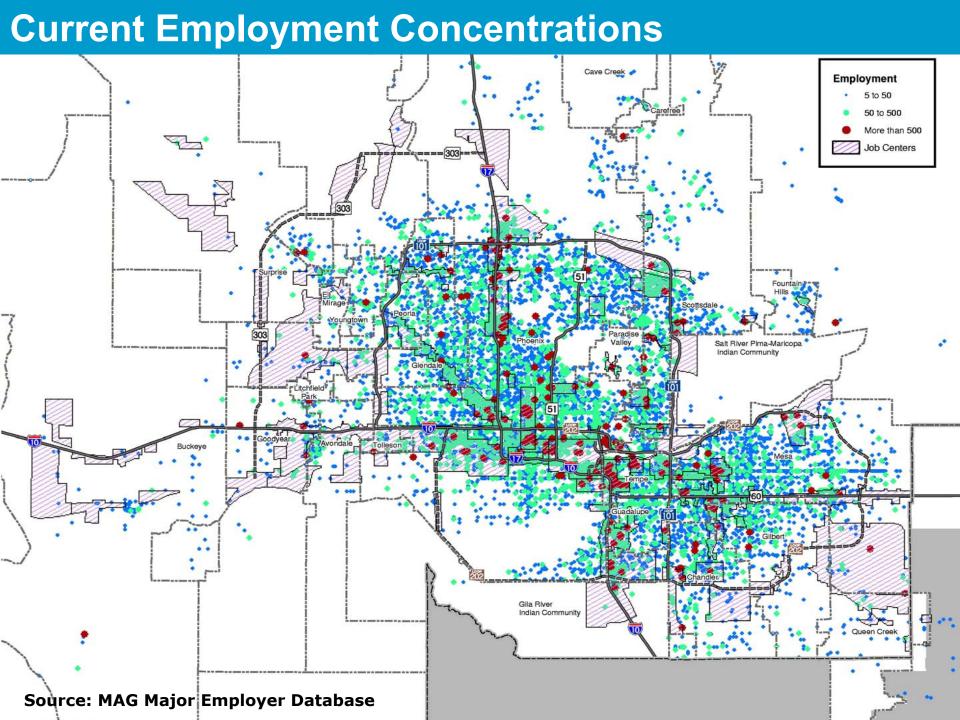
Where are the jobs?



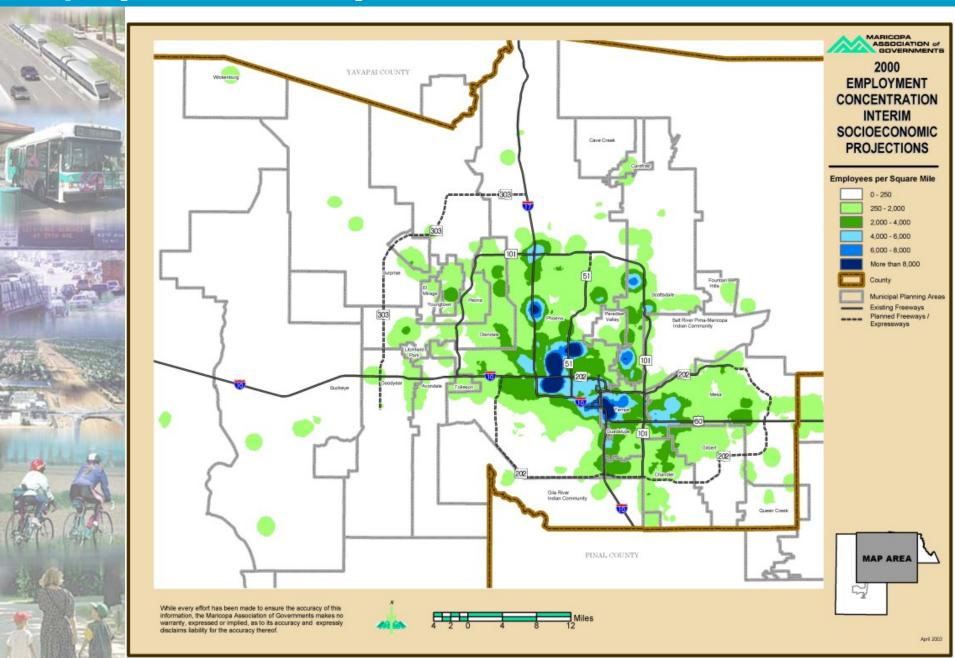


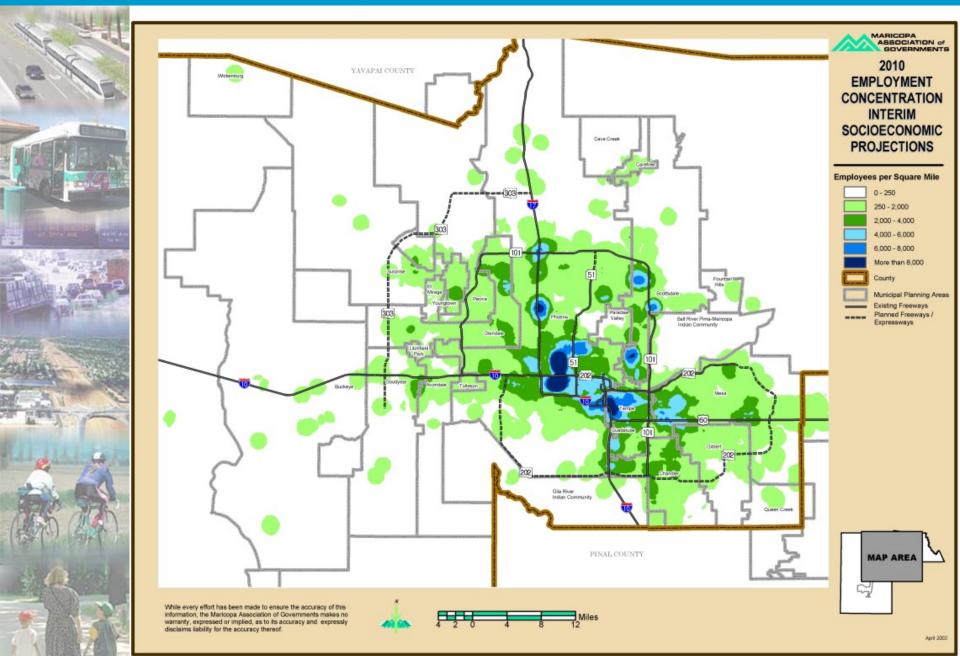


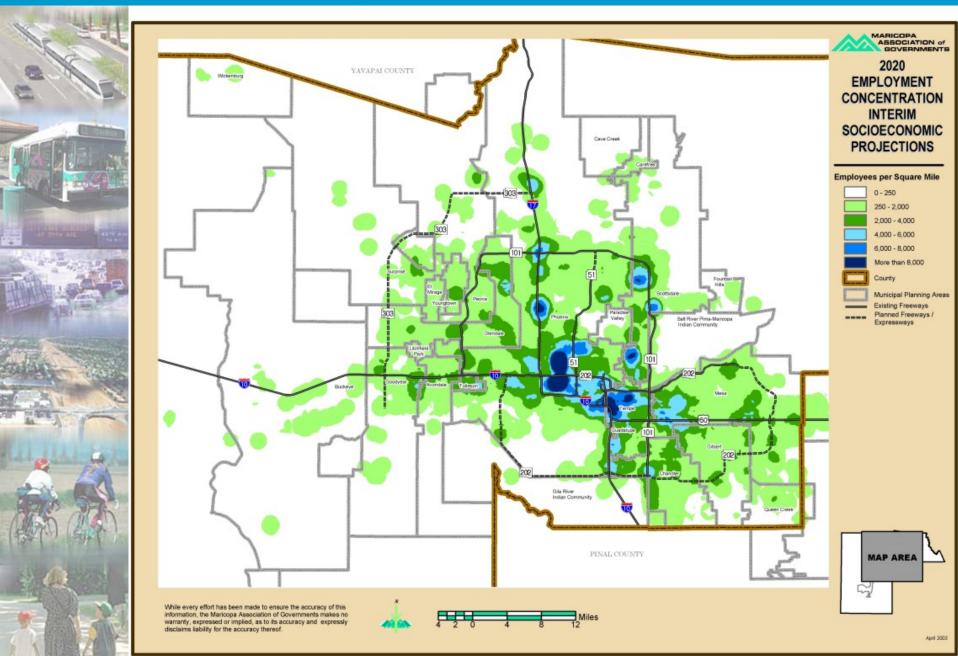


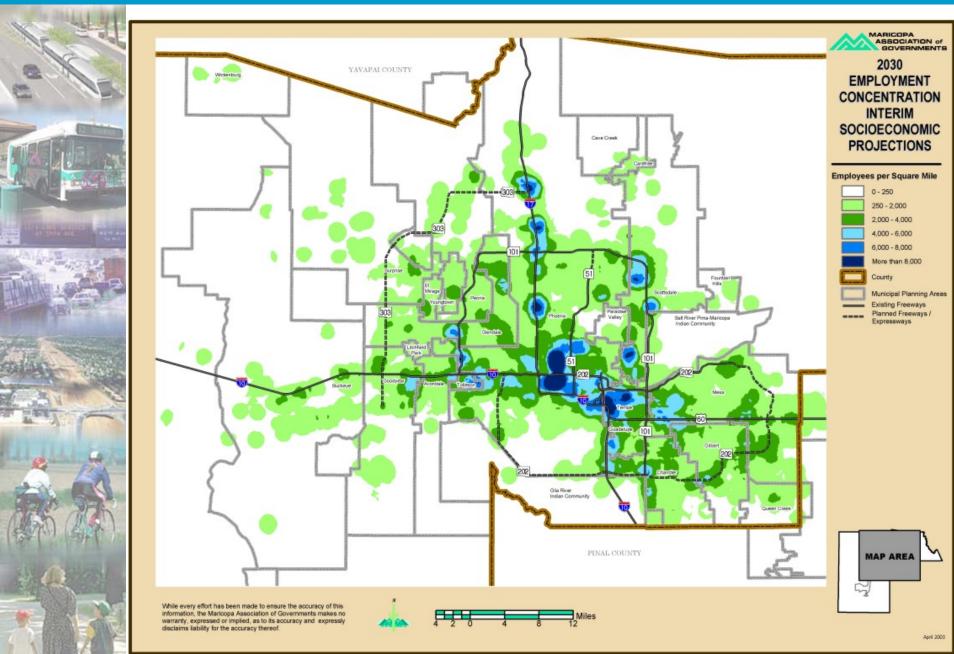


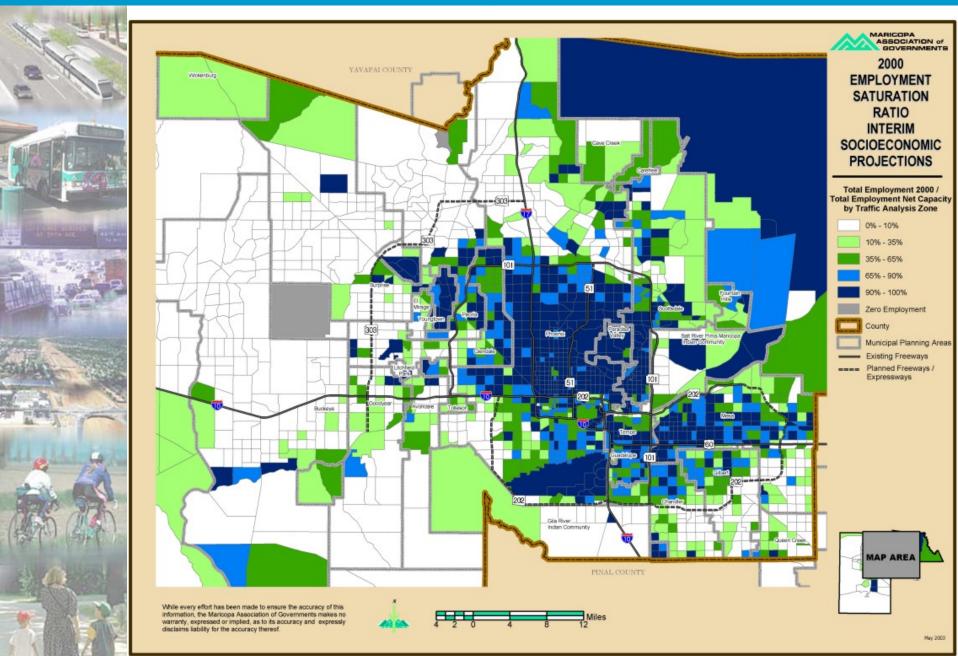
Current and Future Job Centers 303 Fountain *** Scottsdale Paradise Phoenix Salt River Pima-Maricopa Indian Community Gila River Indian Community Queen Creek **Developed Centers** Existing Center - Expansion Potential Future Center -No Infrastructure Revitalization Center

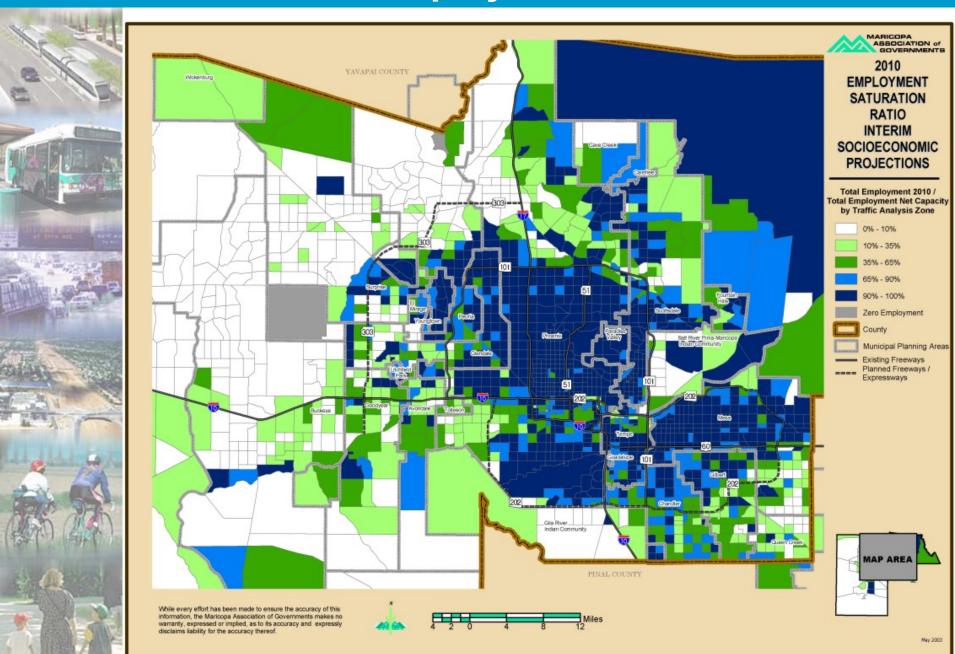


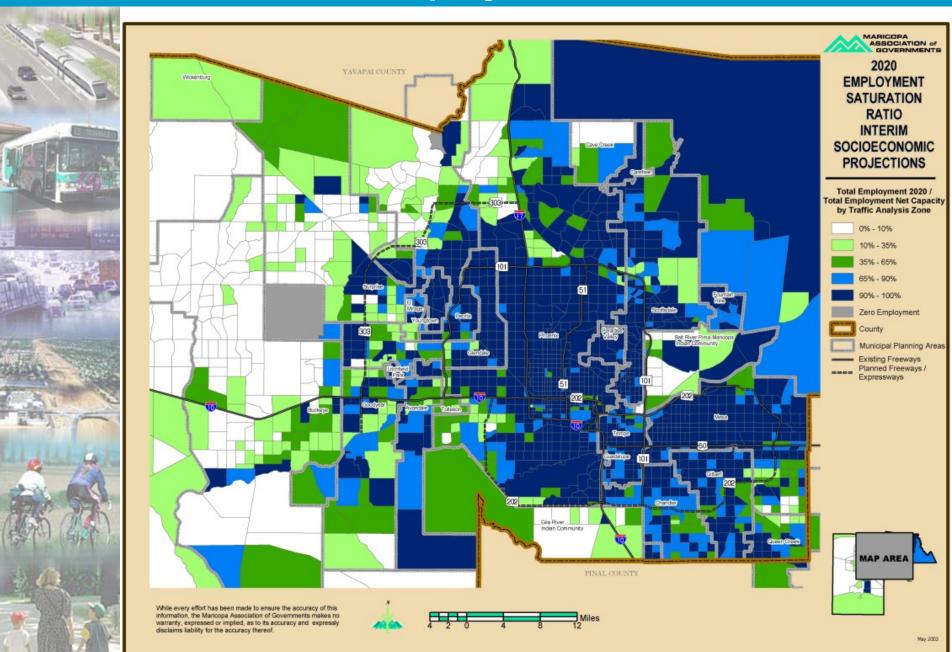


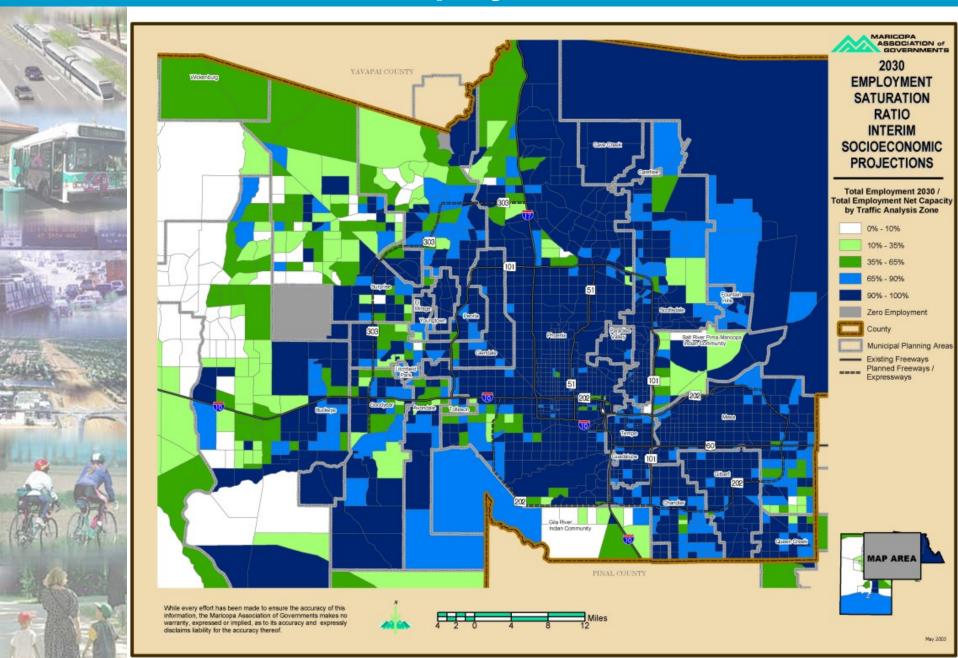


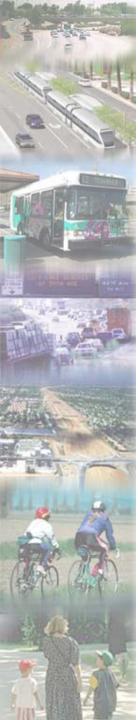












What are the Impacts of Growth on Transportation?

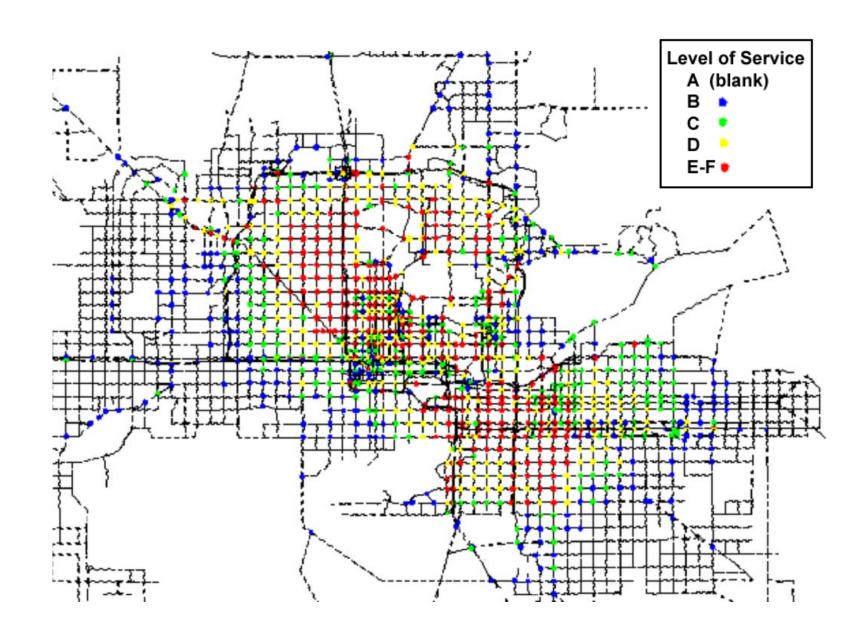




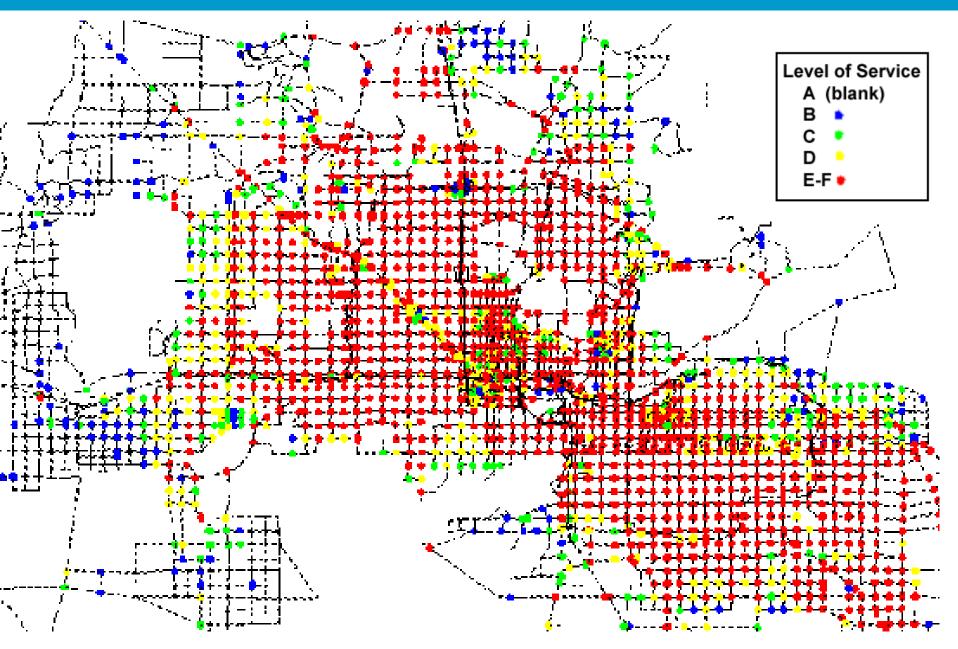




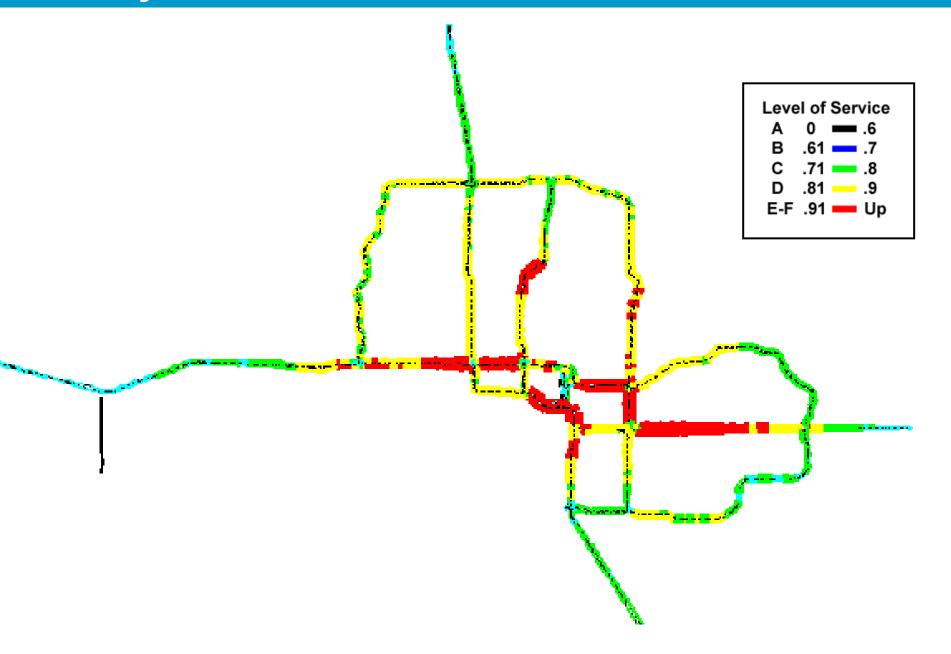
Arterials – Base Level of Service



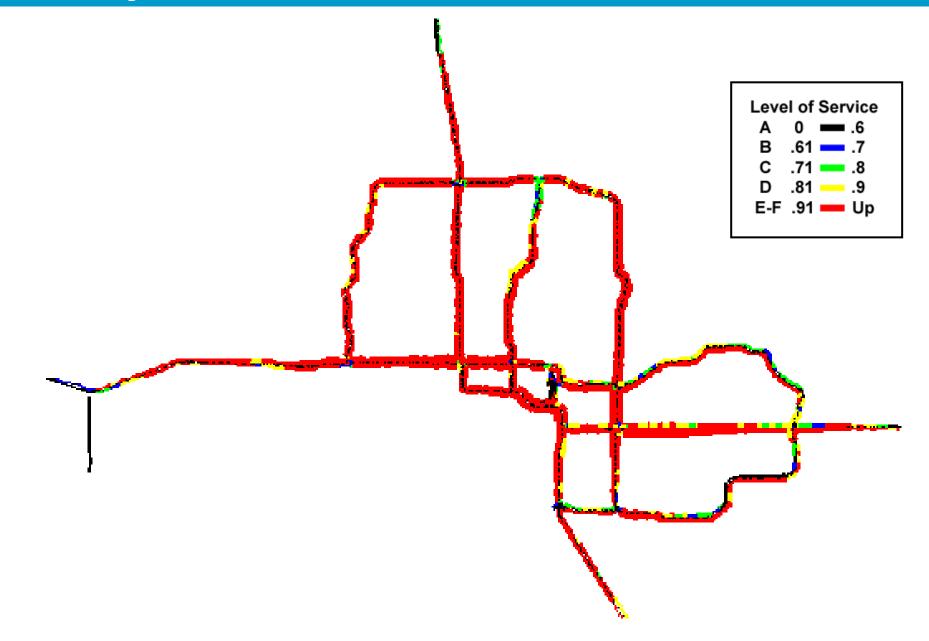
Arterials – Base Level of Service



Freeways – Base Level of Service



Freeways – Base Level of Service





RTP Background Studies

Underway/Just Completed

- MAG High Capacity Transit
- VM/RPTA Regional Transit
- MAG-ADOT HOV/ Value Lanes
- MAG Bottleneck
- Arterial Travel Speed

- MAG NWATS
- MAG SWATS
- MAG-CAAGSE Maricopa / N.Pinal ATS
- MAG Grand Ave. NW
- MAG East-West Mobility

Previously Completed

MAG Park and Ride, MAG ITS Strategic Plan, MAG ROSS Plan, CANAMEX



MAG High Capacity Transit Study

Contact:

- Dawn Coomer, MAG, (602) 254-6300
- dcoomer@mag.maricopa.gov

Consultant:

- Steve Schiboula, IBI Group, (949) 833-5588
- sschiboula@ibigroup.com

Current Focus:

- Alternatives Analysis & HCT Recommendations
- Draft 2 Socioeconomic Data

Recommended High Capacity Transit Network (BRT/LRT corridors not alignment specific)



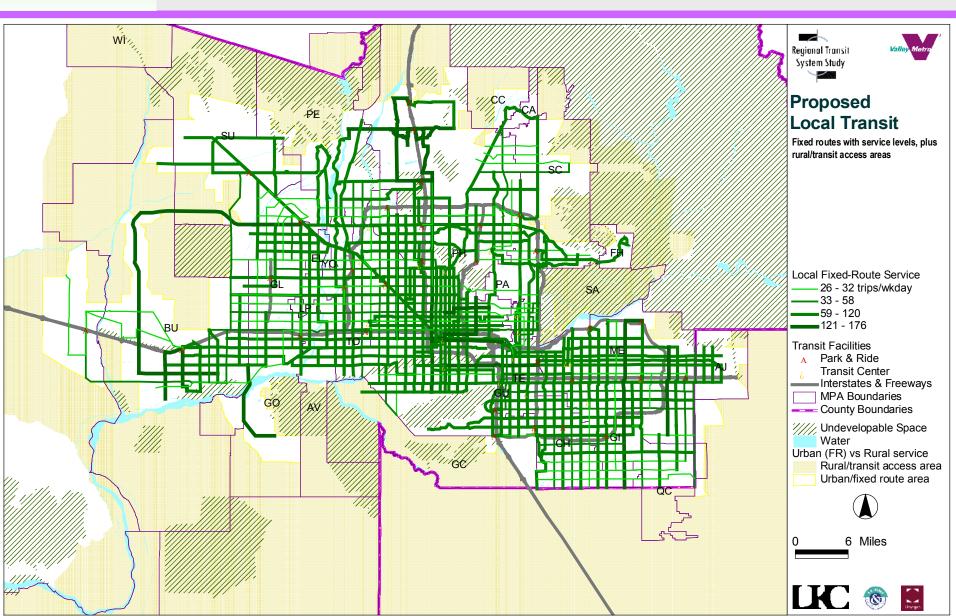


Valley Metro/RPTA Regional Transit System Study

- Contact:
 - Stuart Boggs, RPTA, (602) 534-5474
 - sboggs@valleymetro.org
- Consultant:
 - Linda Cherrington, LKC Inc.,
 (713) 522-2554
 - linda@lkcinc.com
- Current Status:
 - Alternatives Analysis, Costing & RTS Recommendations
 - Fixed Route, Paratransit, Rural, Vanpool Focus (No HCT)

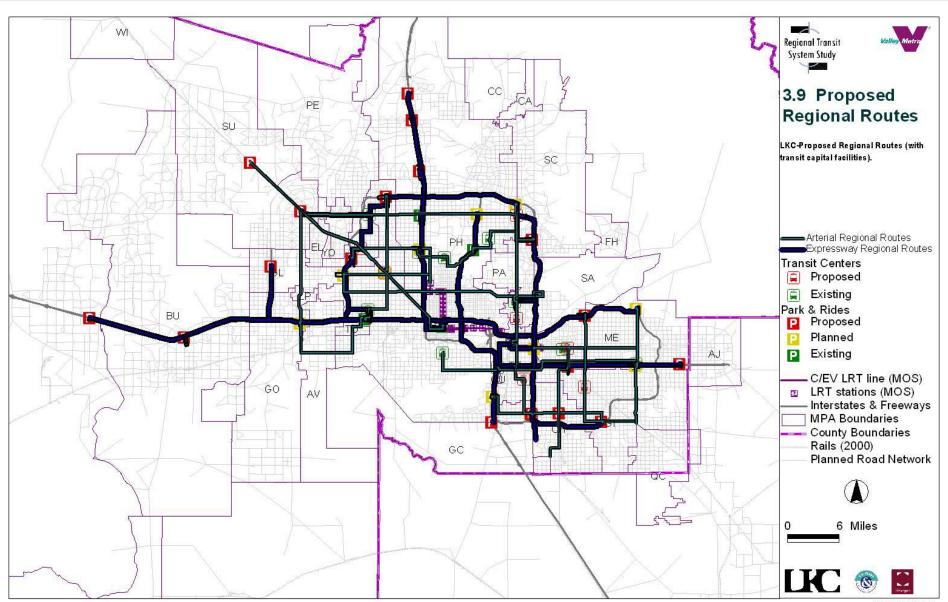


Local Bus Network



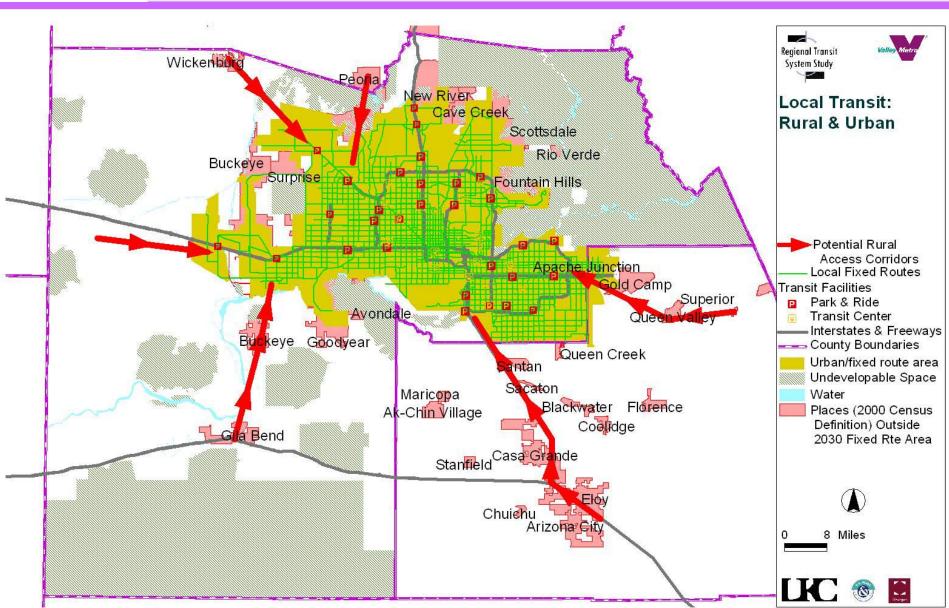


Proposed Regional Connections





Rural Transit Access







Dial-a-Ride Services

- Two-Tier Dial-a-Ride Services
 - ADA complementary paratransit
 - Seniors/Disabled Services
- Demand
 - Estimate eligible population within the Region
 - Estimate trip requirements per patron/Project number of trips required
- Supply
 - Document current productivity ratio
 - Estimate revenue hours





MAG-ADOT Value Lanes Study

Contact:

- Mark Schlappi, MAG, (602) 254-6300
- mschlappi@mag.maricopa.gov
- Bill Hayden, ADOT, (602) 712-7524
- whayden@dot.state.az.us

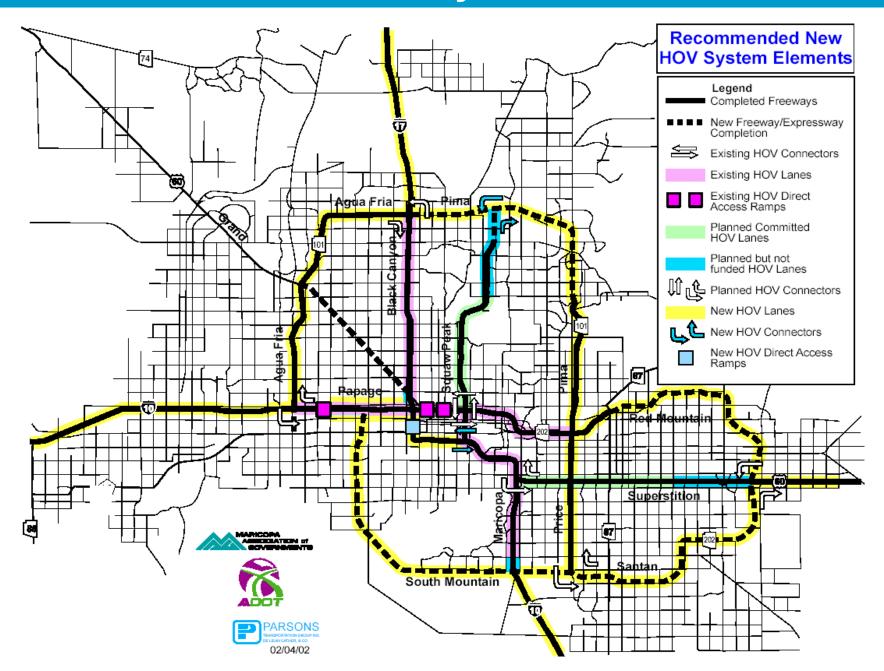
Consultant:

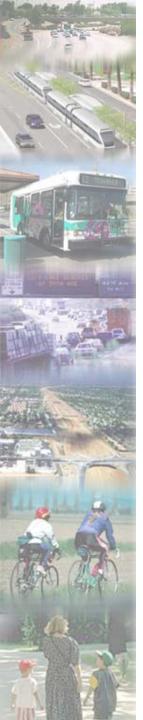
Parsons Transportation Group

Current Status:

- Complete
- Pilot HOT Lane recommended (I-10 west)

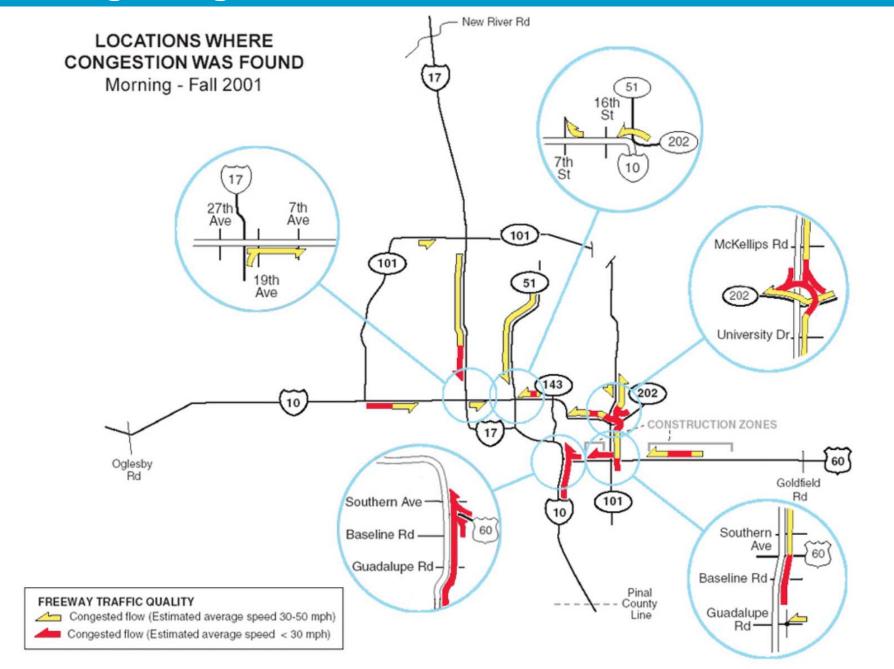
Recommended New HOV System Elements

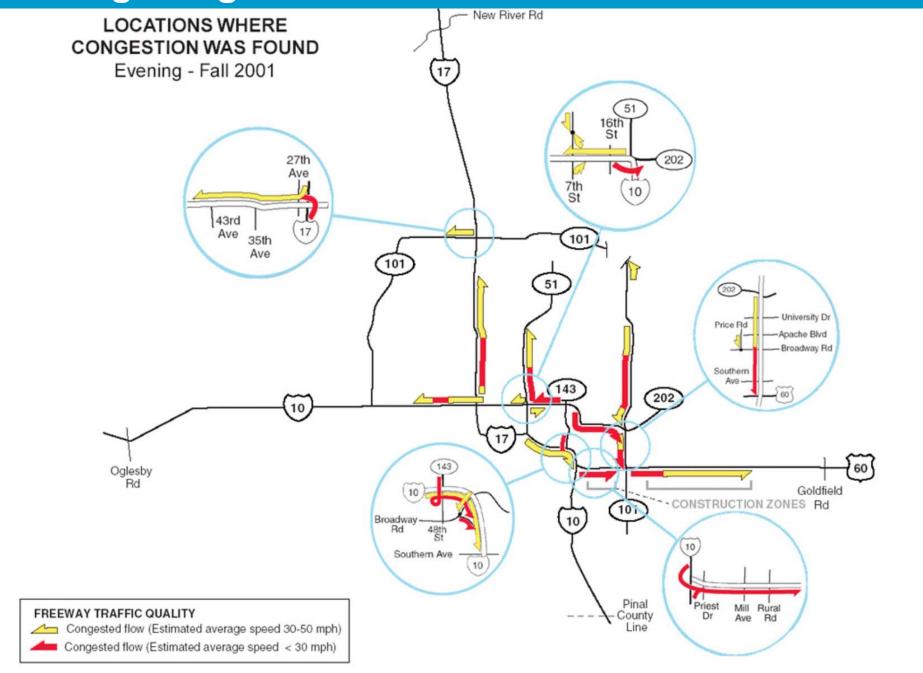




MAG Bottleneck Study

- Contact:
 - Mark Schlappi, MAG, (602) 254-6300
 - mschlappi@mag.maricopa.gov
- Consultant:
 - Mike Connors, HDR, (602) 508-6600
 - Mconnors@hdrinc.com
- Current Focus:
 - Bottleneck & potential capacity improvements under review
 - Modeling alternatives





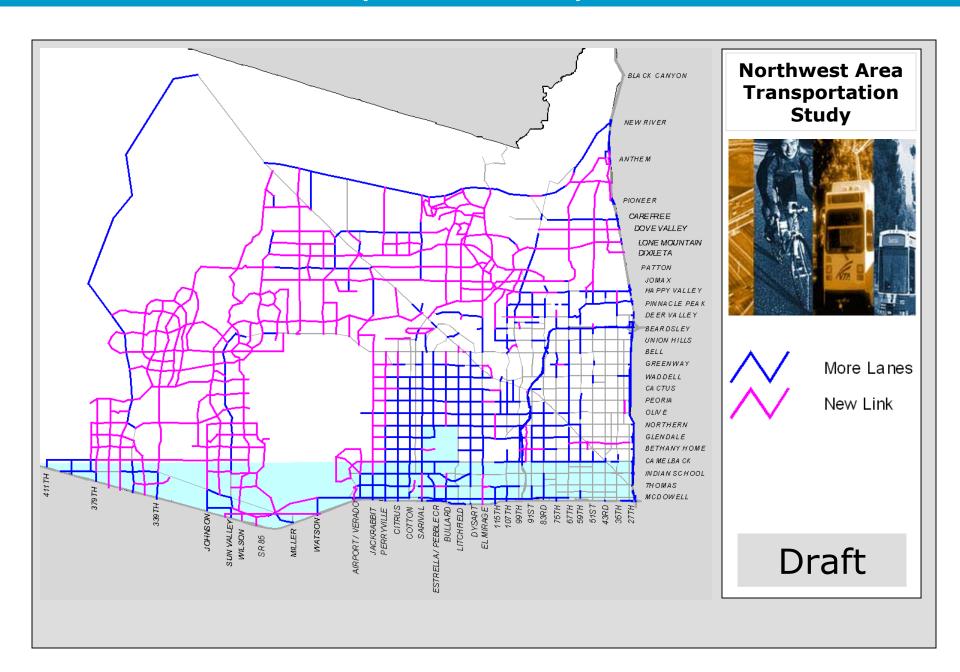


MAG Northwest Area Transportation Study

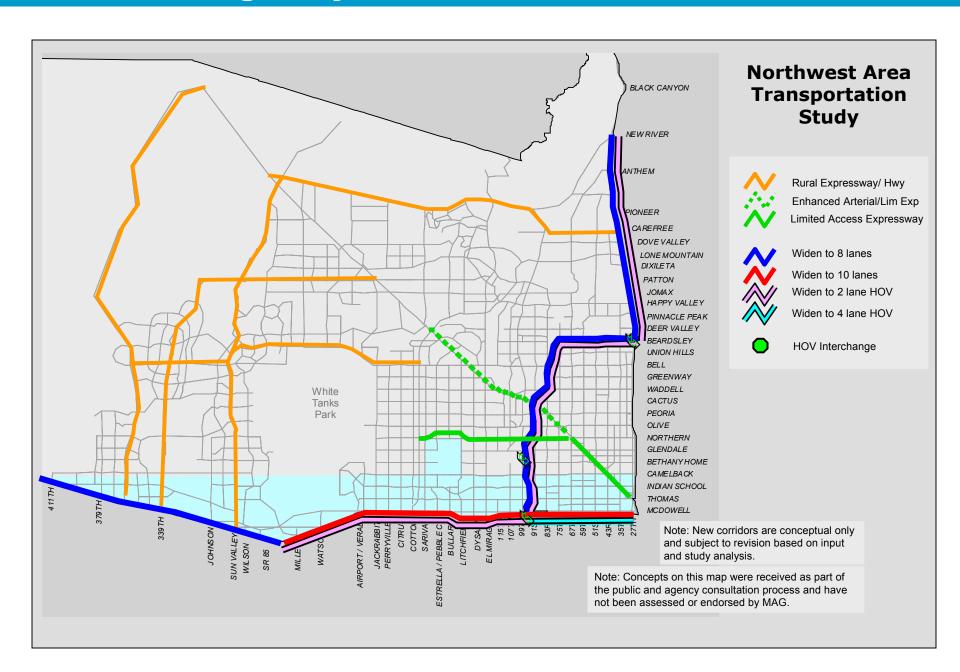
(NWATS)

- Contact:
 - Chris Voigt, MAG, (602) 254-6300
 - cvoigt@mag.maricopa.gov
- Consultant:
 - Steve Hogan, Parsons Brinckerhoff, (480) 921-6867
 - Hogan@pbworld.com
- Current Focus:
 - Alternatives Analysis & Sub-area Recommendations

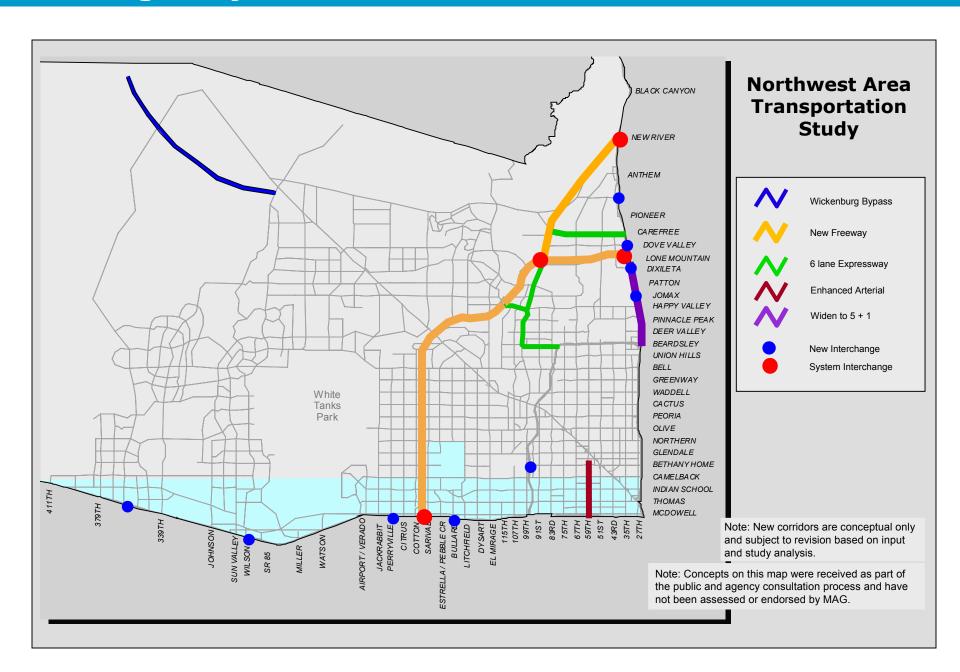
Enhanced Network (as modeled)



Enhanced Highways Network



New Highways Network



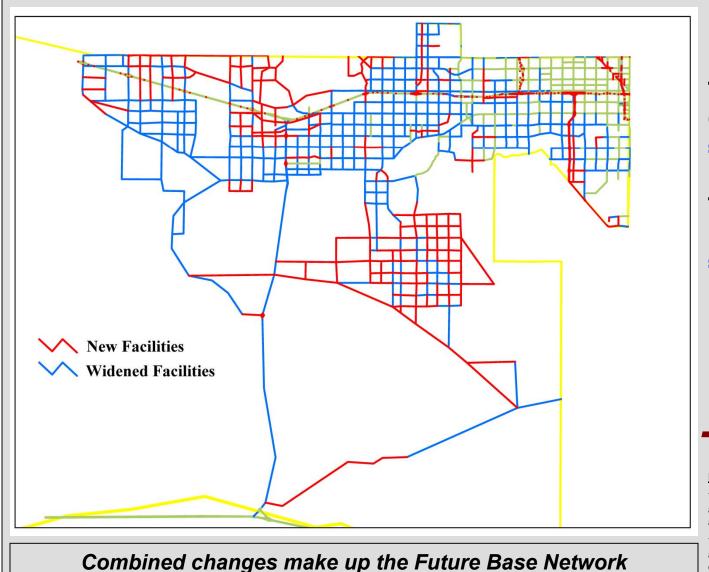


MAG Southwest Area Transportation Study

(SWATS)

- Contact:
 - Chris Voigt, MAG, (602) 254-6300
 - cvoigt@mag.maricopa.gov
- Consultant:
 - Linda Meronek, Wilbur Smith Associates, (480) 775-4344
 - Lmeronek@wilbursmith.com
- Current Focus:
 - Alternatives Analysis & Sub-area Recommendations

2000 Base Network with Additions & Widenings



Total Network
Centerline Miles:

= 1,310

Total Network Lane Miles:

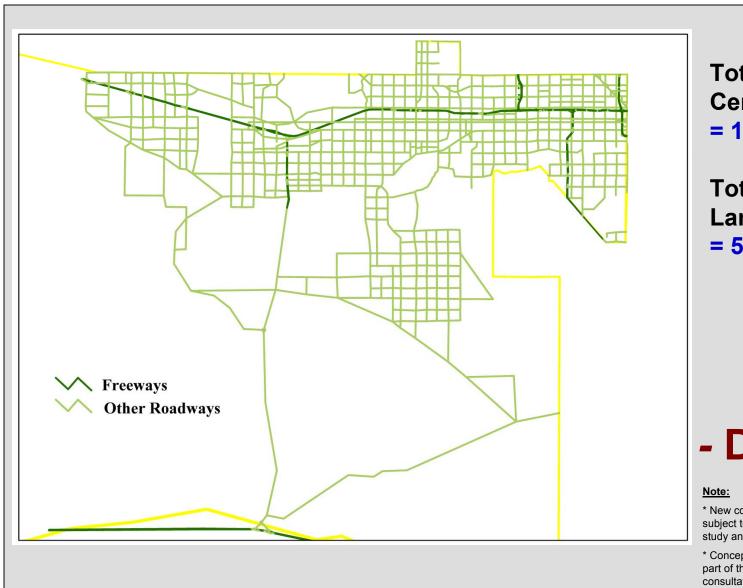
= 5,481

- DRAFT -

Note:

- * New corridors are conceptual only and subject to revision based on input and study analysis.
- * Concepts on this map were received as part of the public and agency consultation process and have not been assessed or endorsed by MAG.

Enhanced Network (as modeled)



Total Network Centerline Miles:

= 1,310

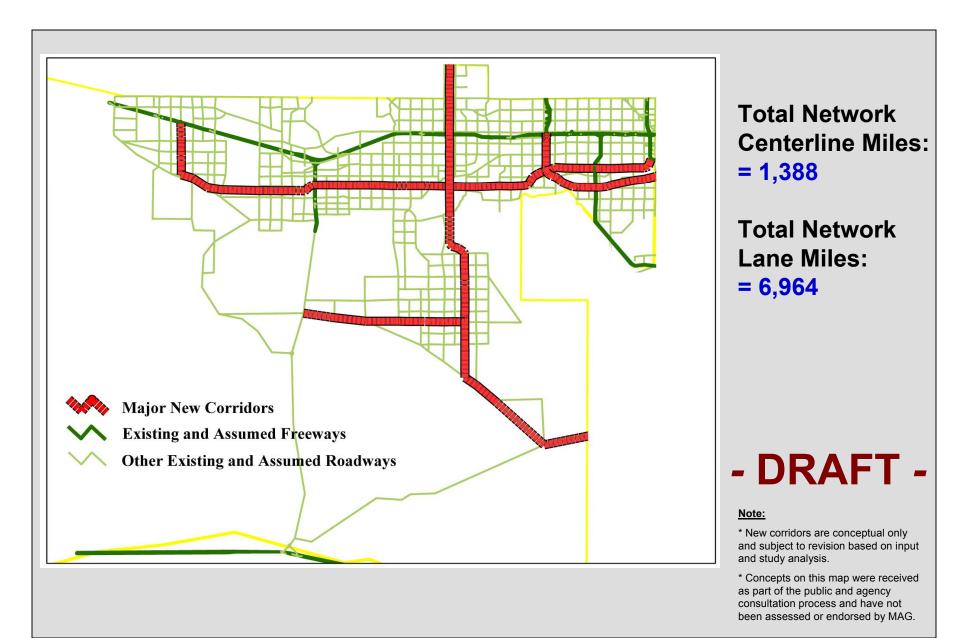
Total Network Lane Miles:

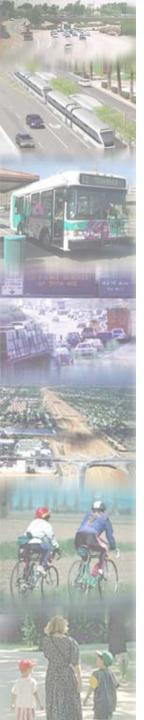
= 5,834

- DRAFT -

- * New corridors are conceptual only and subject to revision based on input and study analysis.
- * Concepts on this map were received as part of the public and agency consultation process and have not been assessed or endorsed by MAG.

New Corridors Network (as modeled)





MAG-CAAG SE Maricopa-Northern Pinal County Area Transportation Study

Contact:

- Roger Herzog, MAG, (602) 254-6300
- rherzog@mag.maricopa.gov

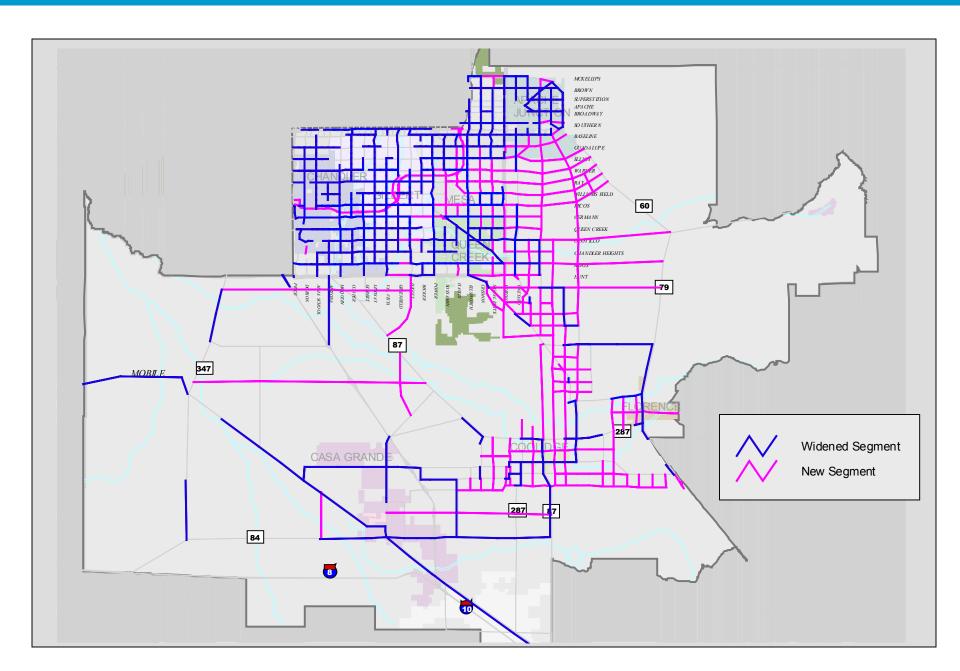
Consultant:

- Dan Hartig, Parsons Brinckerhoff, (480) 966-8295
- hartig@pbworld.com

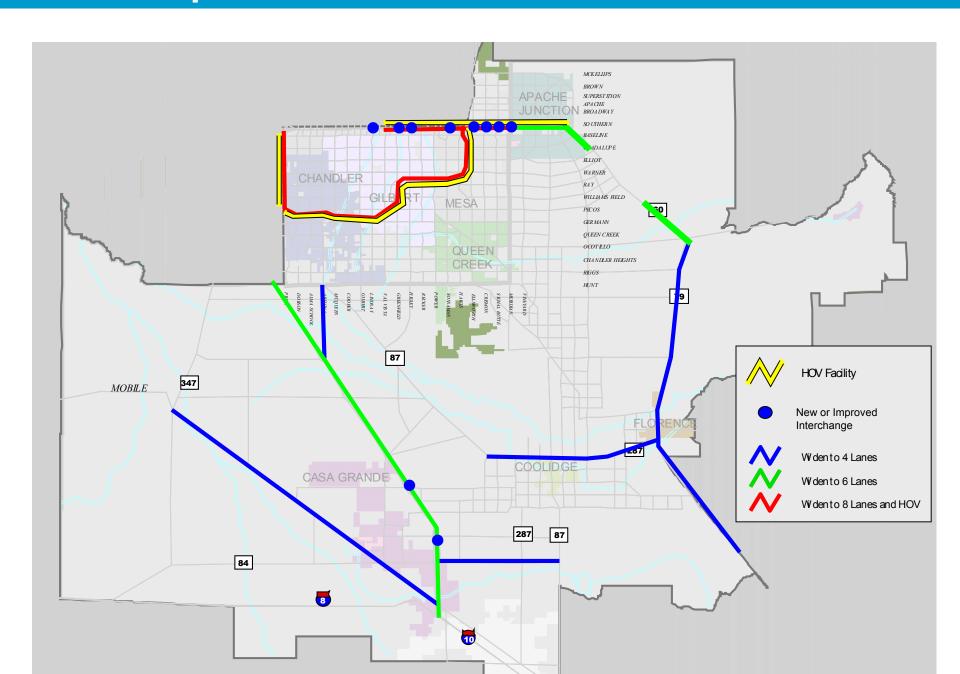
Current Focus:

 Alternatives Analysis & Sub-area Recommendations

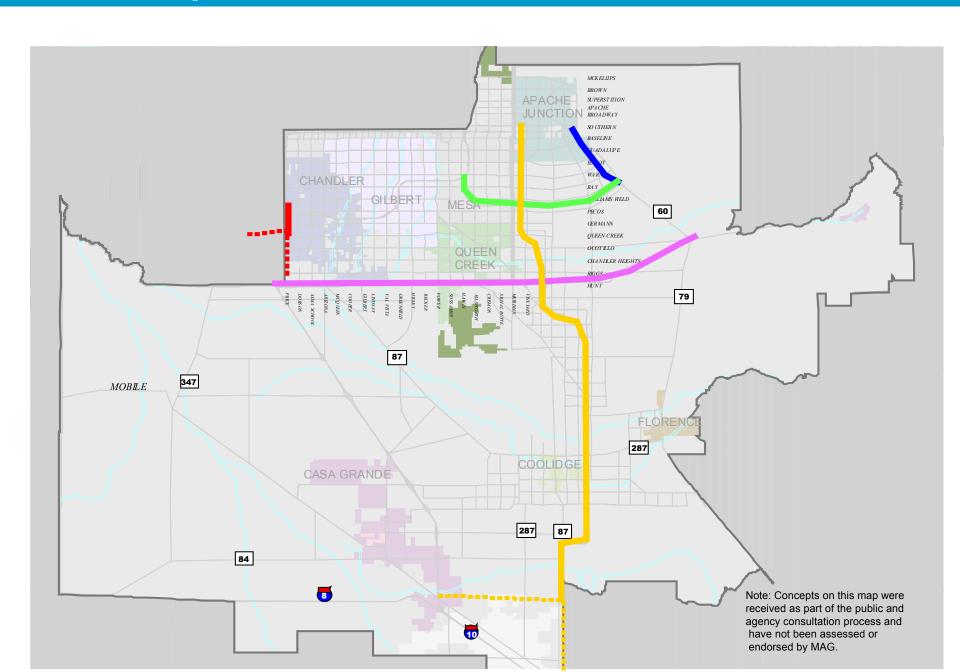
SE Maricopa/N Pinal Future Base



SE Maricopa/N Pinal Enhanced Facilities



SE Maricopa/N Pinal New Facilities

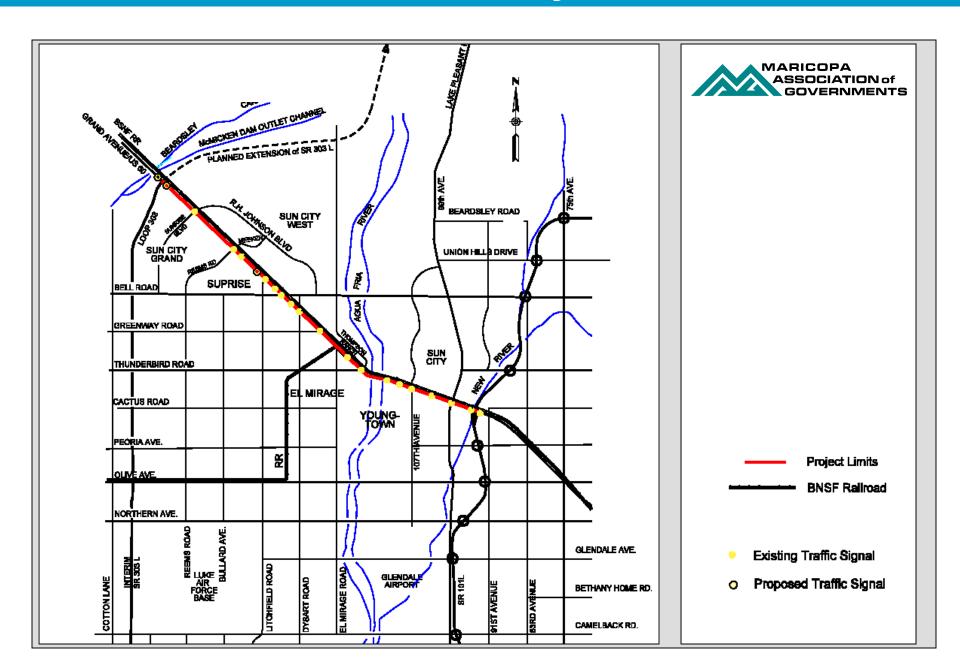




MAG Grand Avenue NW Corridor Study

- Contact:
 - Chris Voigt, MAG, (602) 254-6300
 - cvoigt@mag.maricopa.gov
- Consultant:
 - David French, URS Corp., (602) 371-1100
 - dave french@urscorp.com
- Current Status:
 - Complete: Regional Council January 2003
 - Programmed:
 - DCR for Widening (FY 2006)
 - New River Bridge Widening, (FY 2008, proposed)

Grand Avenue Northwest Study Area

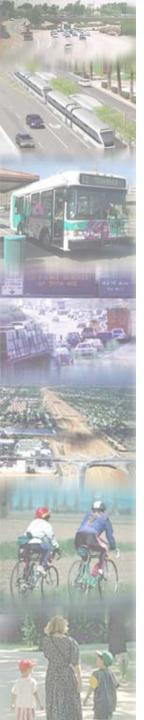




MAG Grand Avenue NW Recommendations

(Loop 101 to 303)

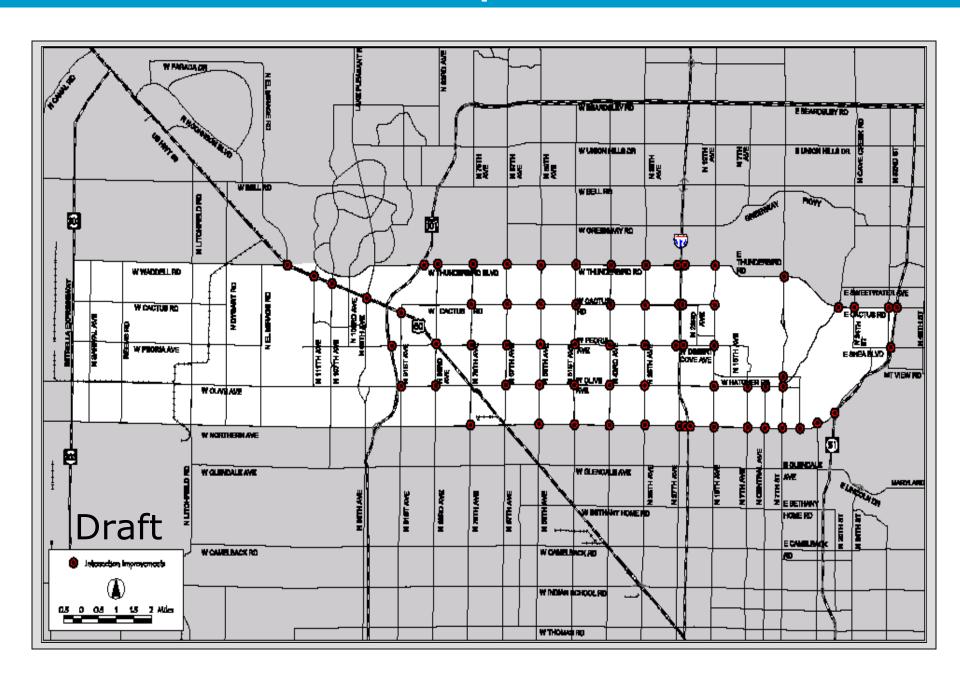
	Recommended Improvement	Cost (in millions)	Responsible Agency
ı	Priority One	400	ABOT
	 Widen Grand Avenue to six lanes 	\$30	ADOT
ı	 Add turn lanes on cross streets 	\$9	Local Jurisdictions
	 Intelligent transportation systems 	\$2.5	ADOT/Regional/Local Jurisdictions
	 Meeker/Reems grade separation interchange or 	\$30	ADOT/Regional/Local Jurisdictions
	Emergency-only grade separation Priority Three	\$6	Local Jurisdictions/Private/Regional
	 El Mirage Road grade separation and extension 	\$35	ADOT/Regional/Local Jurisdictions
	 103rd Avenue grade separation 	\$24	ADOT/Regional/Local Jurisdictions



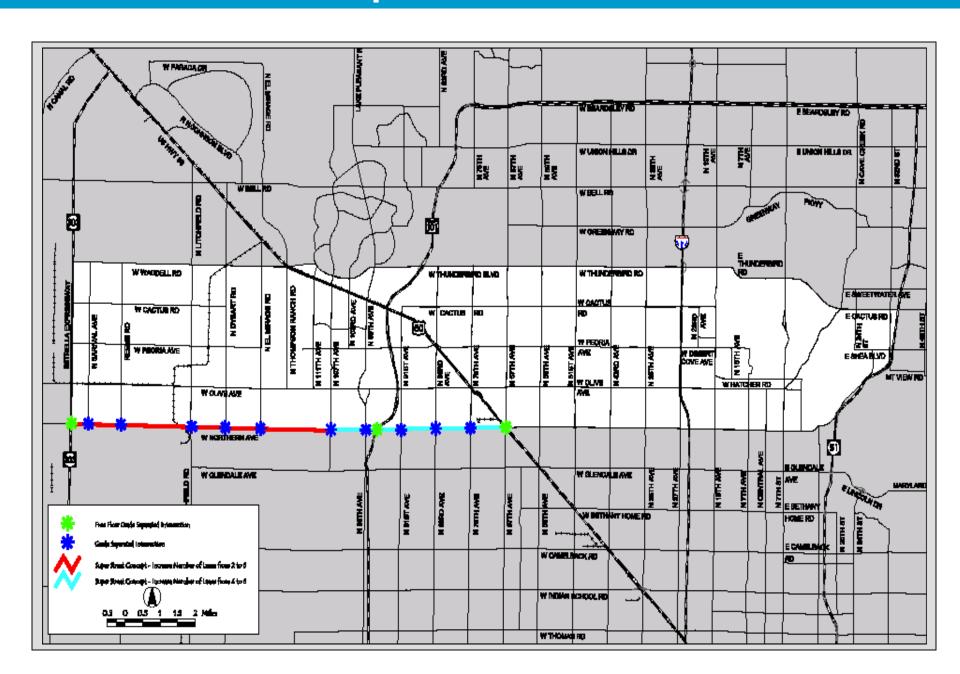
MAG East-West Mobility Study

- Contact:
 - Roger Herzog, (602) 254-6300
 - Rherzog@mag.maricopa.gov
- Consultant:
 - David Bredahl, Entranco, (970) 221-3600
 - <u>dbredahl@entranco.com</u>
- Current Status:
 - Analysis of six options
 - Two appear most feasible

East-West: Intersection Improvements



Northern Avenue Super Street





MAG Arterial Travel Speed Study

Contact:

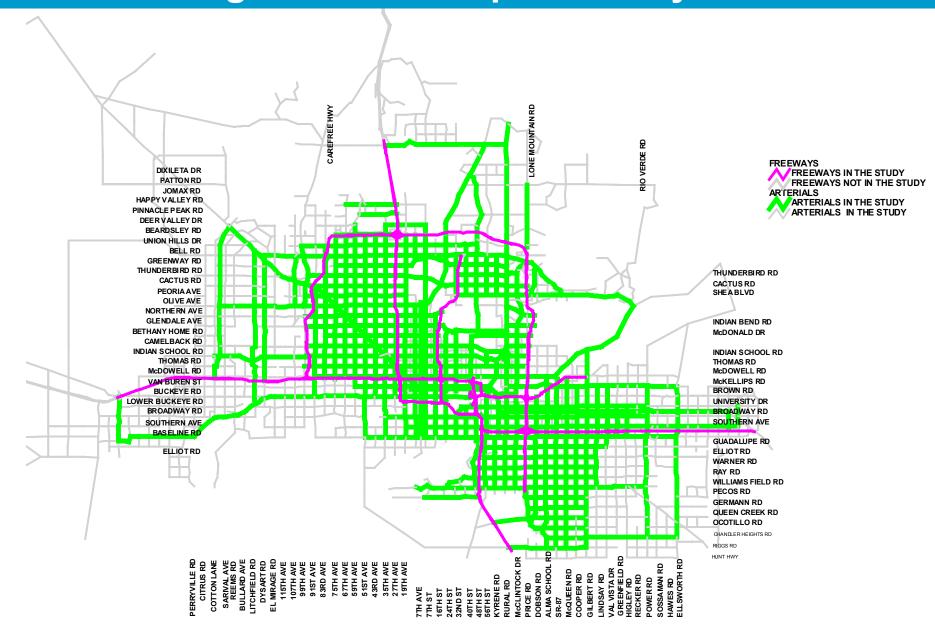
- Mark Schlappi, (602) 254-6300
- Mschlappi@mag.maricopa.gov

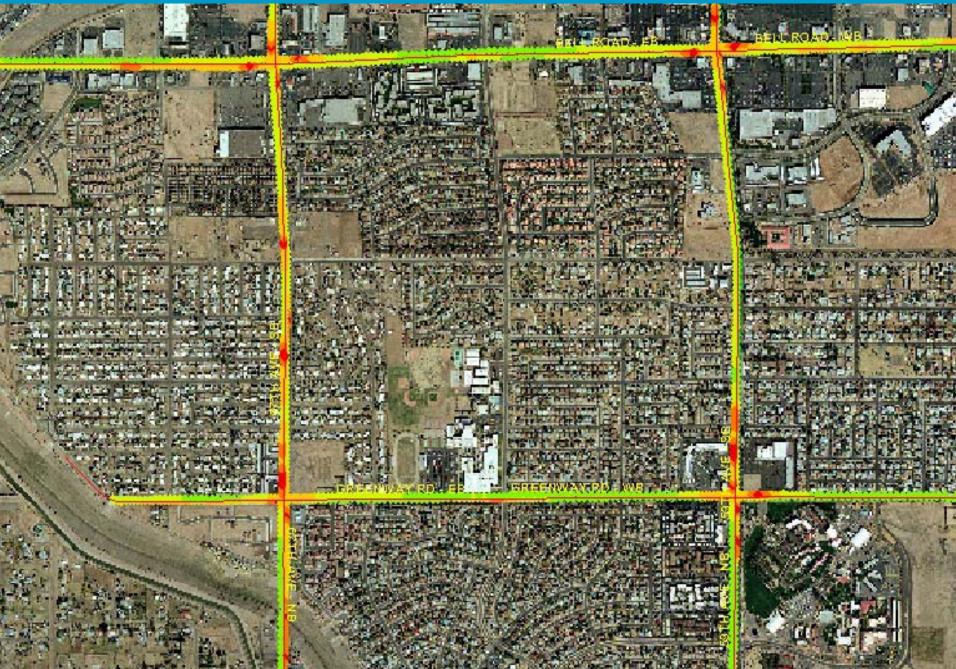
Consultant:

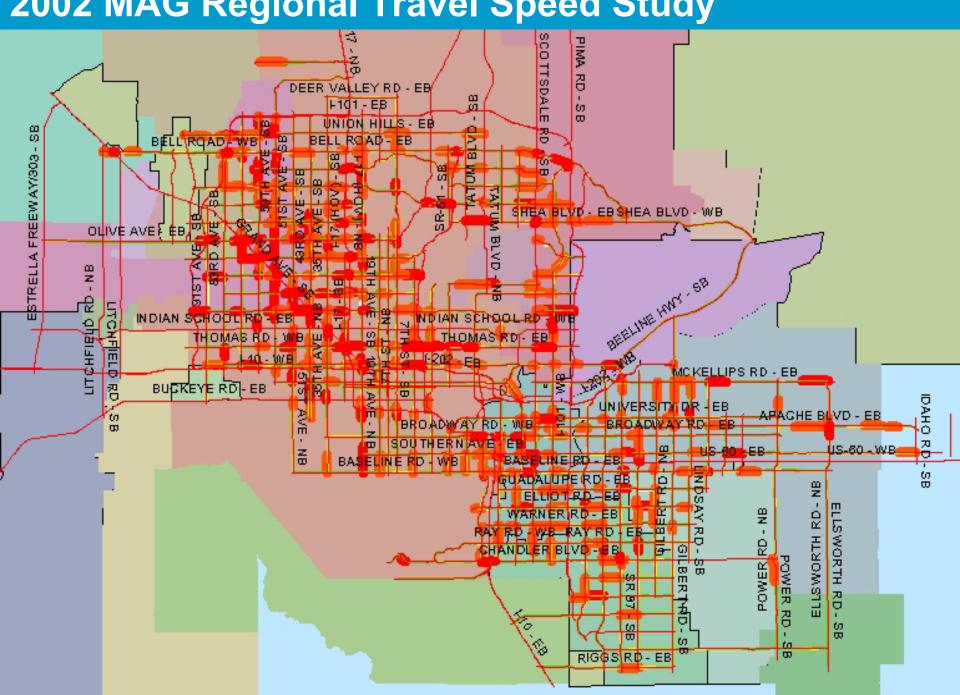
- Steve Taylor, Carter & Burgess
- (214) 638-0145
- Taylorst@c-b.com

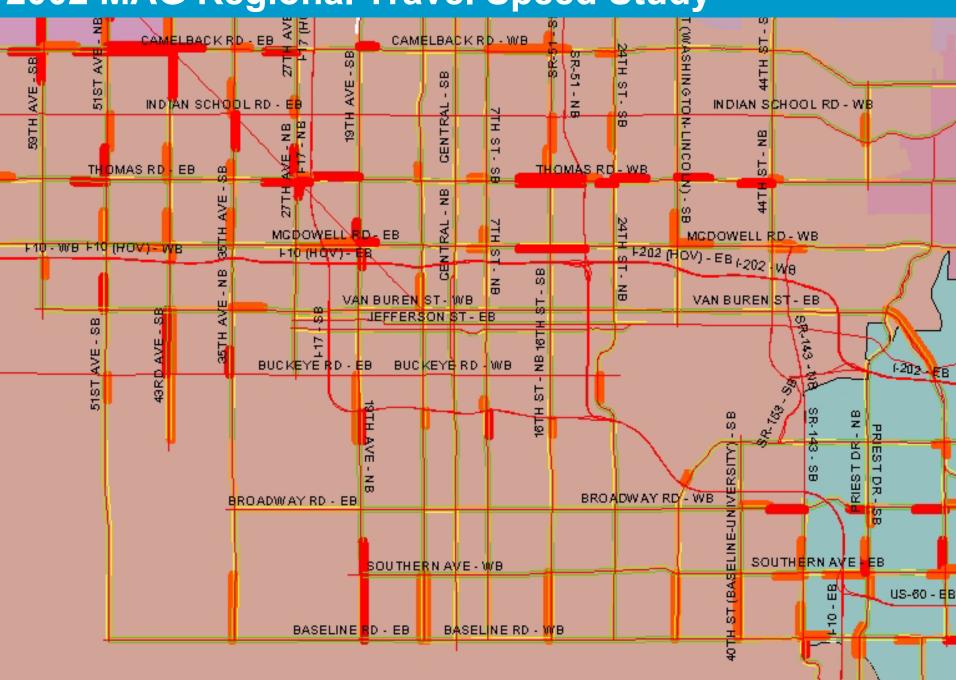
Current Status:

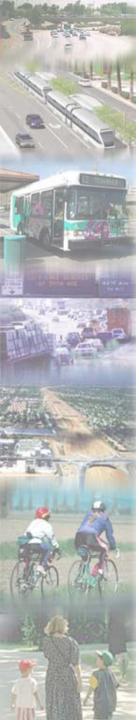
Data collection underwway





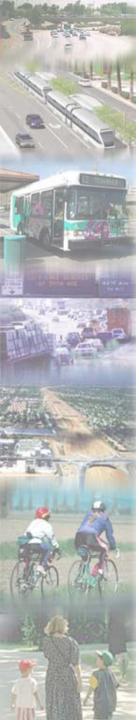




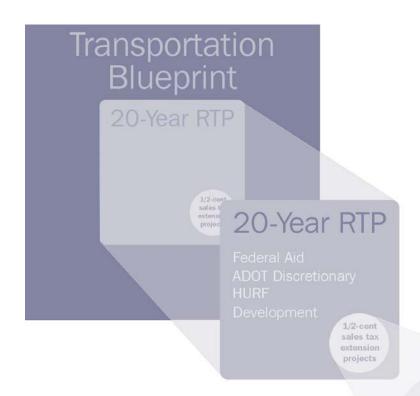


Regional Transportation Plan

Transportation Blueprint



Regional Transportation Plan



1/2-cent sales tax extension projects



Major Steps in the RTP Process

- Background studies: mostly complete
- Goals & objectives: adopted
- Performance measures: draft
- Revenue Projections: draft
- Modeling scenarios alternatives analysis: in process (March – June)
- Hybrid plan: June August
- Funding & Phasing Plan: July Sept
- Draft Plan for AQ Conformity: Sept
- Air quality conformity: Oct Nov



Draft Performance Measures

- Percent of maintenance and preservation needs funded.
- Accident rate per million miles of passenger travel.
- Travel time between selected origins and destinations.
- Peak period delay by facility type and geographic location.
- Peak hour speed by facility type and geographic location.
- Number of major intersections at level of service "E" or worse.
- Miles of freeways with level of service "E" or worse during peak period.
- Percentage of persons within 30 minutes travel time of employment by mode.
- Average daily truck delay.
- Jobs within one-quarter mile distance of transit service.
- Percentage of major arterial streets that have bike lanes.
- Percentage of regional connectors funded as part of the Number of miles of off-street bike/pedestrian system plan.



Draft Performance Measures (cont.)

- Percentage of workforce that can reach their workplace by transit within one hour with no more than one transfer.
- Per Capita VMT by facility type and mode.
- Total transit ridership.
- Households within one-quarter mile of transit.
- Transit share of travel (by transit sub-mode).
- Households within five miles of park-and-ride lots or major transit centers.
- Amount of pollutant emissions by type (NAQS).



Transportation Revenues

(2006-2025 in 2002 Dollars)

\$5.4 Billion

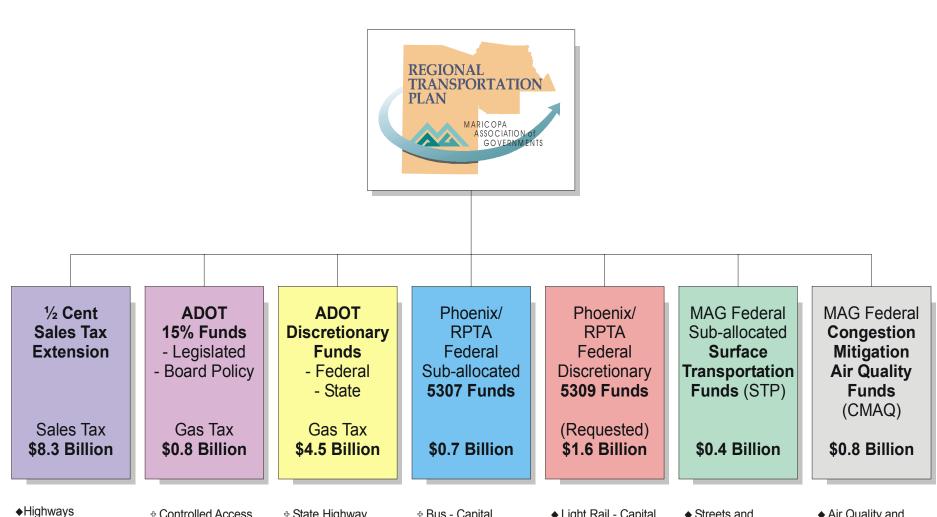
Transit Fares & Local Transit Sources

\$6.9 BillionCity & County
HURF

\$17.1 BillionRegional Funding
Sources

\$29.4 Billion

Major Regional Revenue Sources (2006-2025)*



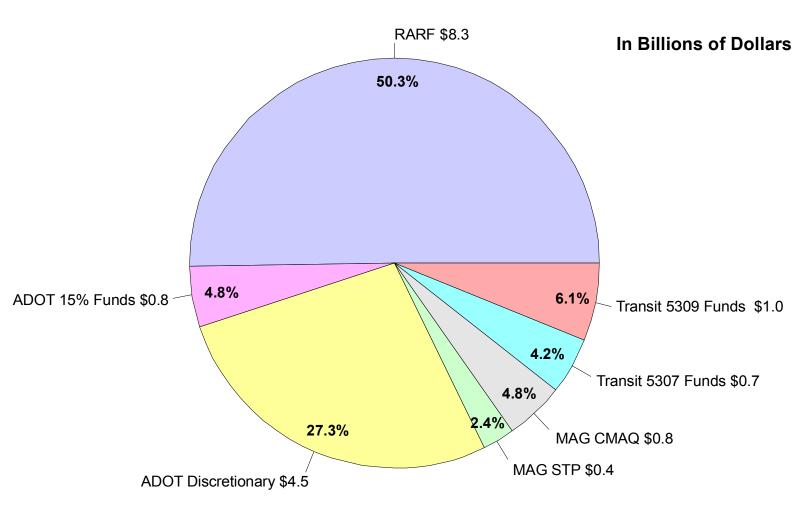
- ◆ Arterial Streets
- ◆ Transit

- Controlled Access State Highways
- State Highway **Improvements**
- + Bus Capital
- ◆ Light Rail Capital
- ◆ Bus Capital
- Streets and Highways
- ◆ Transit Capital
- ◆ Air Quality and Congestion Relief Projects
- ◆ Transit Capital

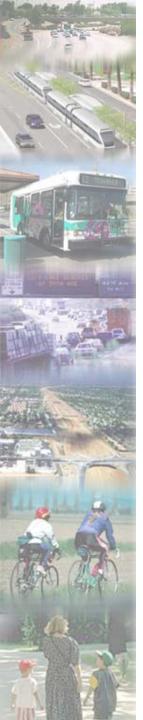


Percentage of Funds

Major Regional Revenue Sources (2006-2025)*



^{*} Preliminary Estimate (3/12/03)



Types of Projects

- Freeways/Expressways/Parkways
- Major Streets
- Local Bus Service
- Bus Rapid Transit/ Express Bus
- Light Rail Transit
- Commuter Rail
- Bicycle/Pedestrian
- Paratransit
- Other Regional Transportation Programs

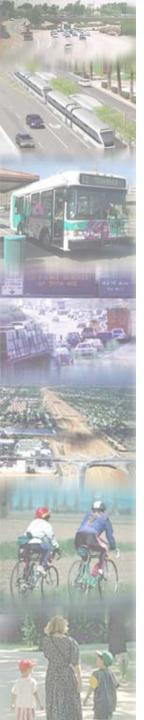


Purpose of the Scenarios

Determine how different configurations and components of the regional transportation system perform.

Identify deficient areas that need additional improvements.

Output will be used as part of the process to select an effective combination of projects for the plan.



Modeling Scenarios

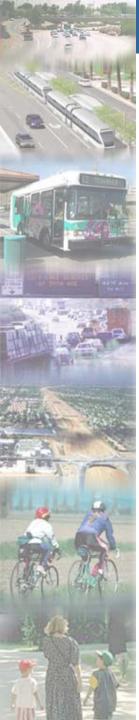
- Scenario A Freeway Emphasis
- Scenario B Arterial Emphasis
- Scenario C Transit Emphasis



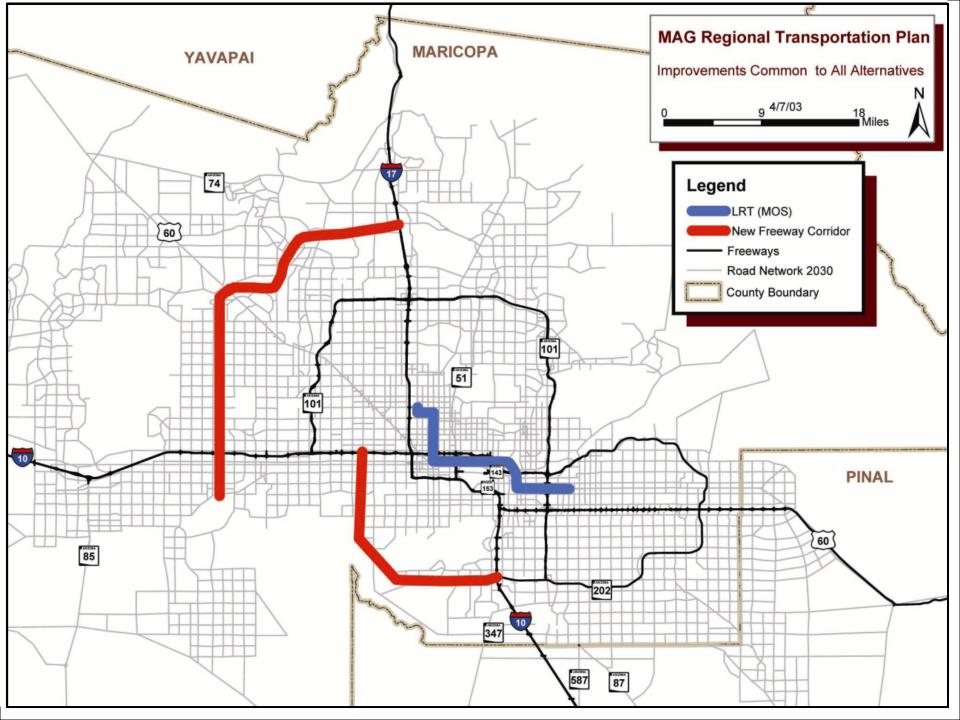
Summary of Regional Funding by Project Type

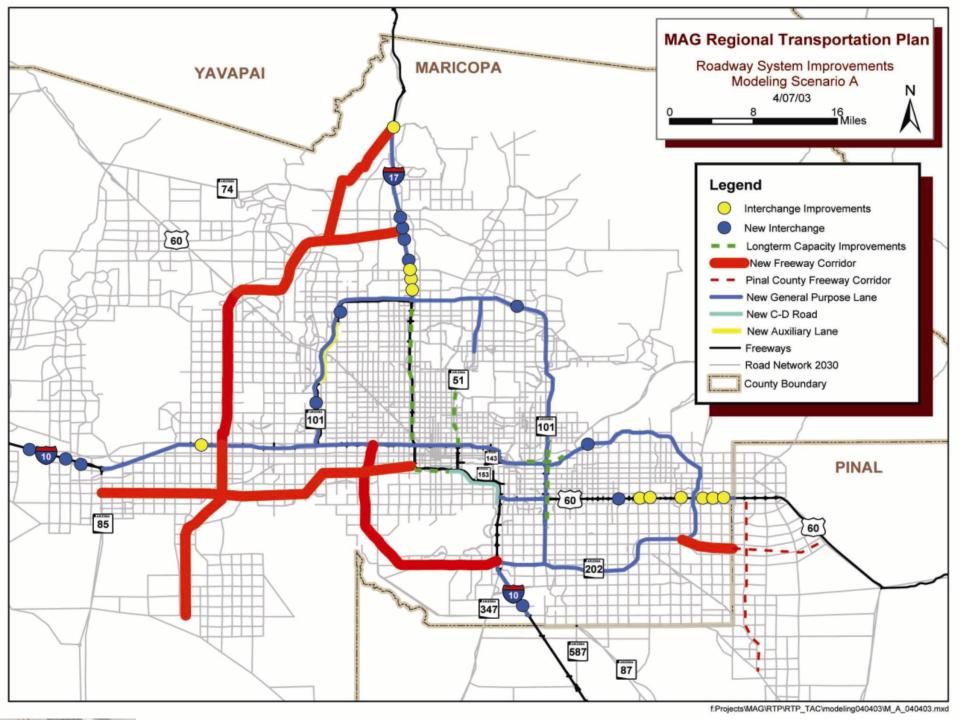
	Scenario A	Scenario B	Scenario C
Freeways	\$11,049	\$8,906	\$6,450
Major Arterial Streets	\$1,600	\$3,701	\$1,600
Transit	\$3,984	\$4,027	\$8,384
Other Regional Programs	\$602	\$602	\$602
Total	\$17,235	\$17,236	\$17,036

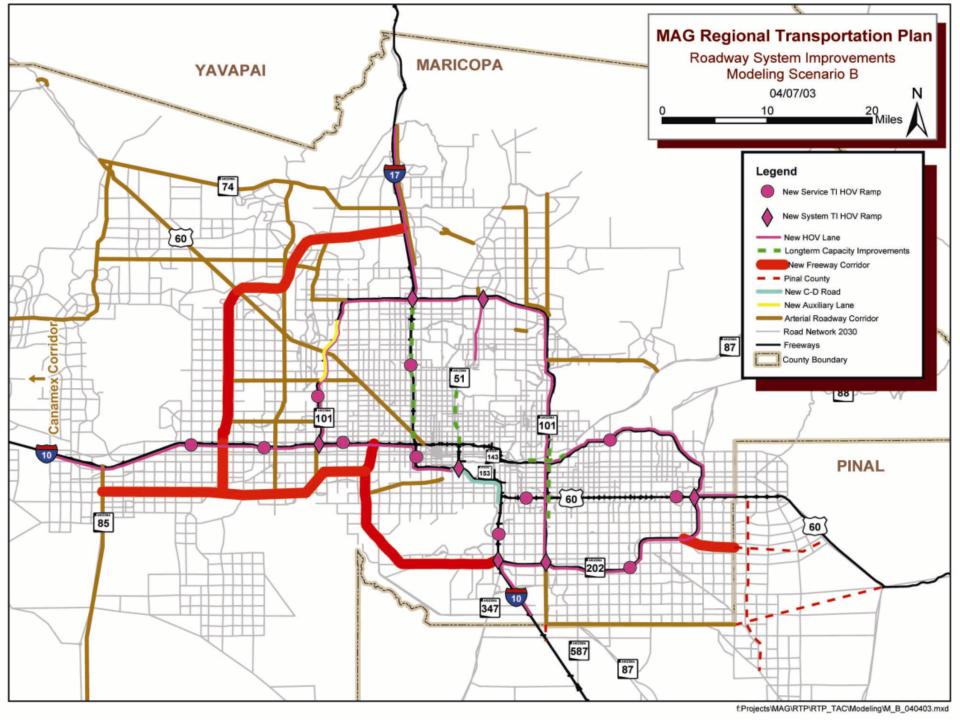
Note: Funding amounts shown in millions of 2002 dollars

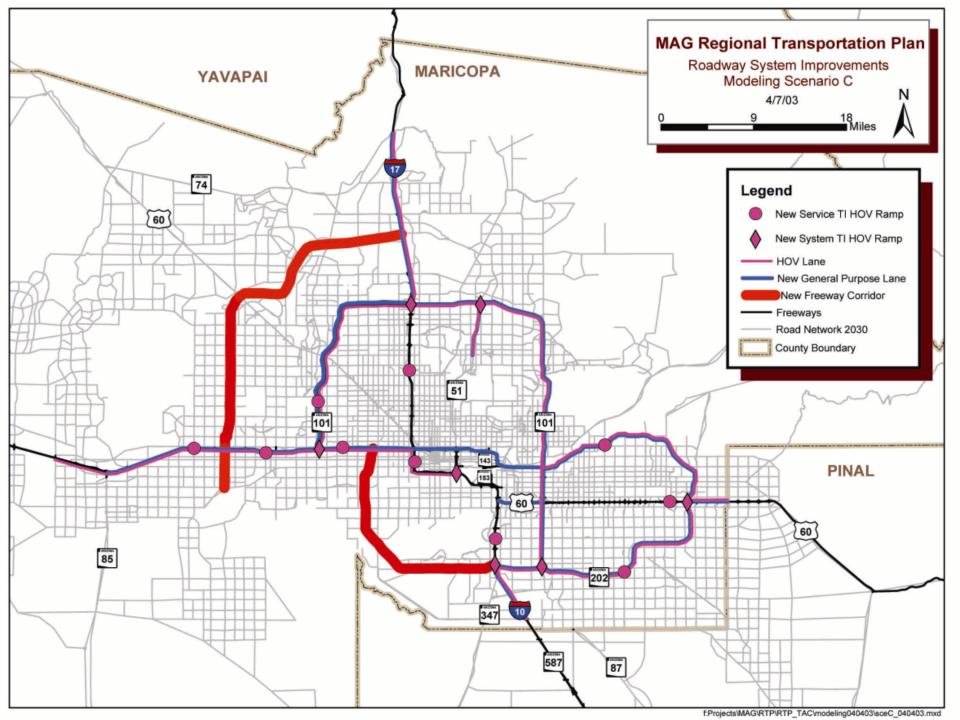


Roadway Improvements



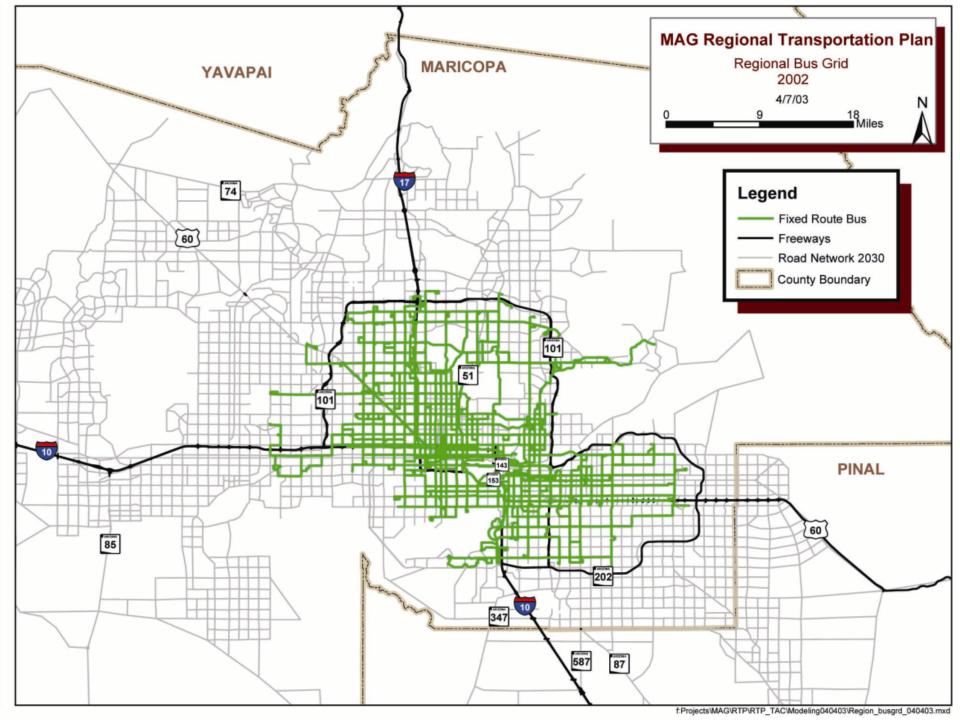


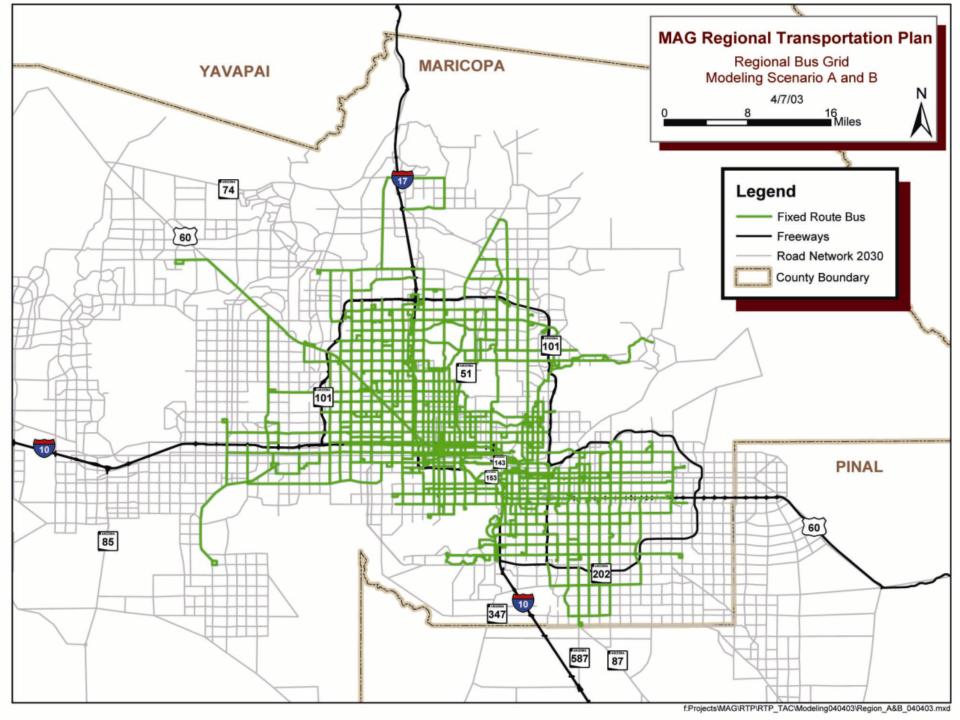


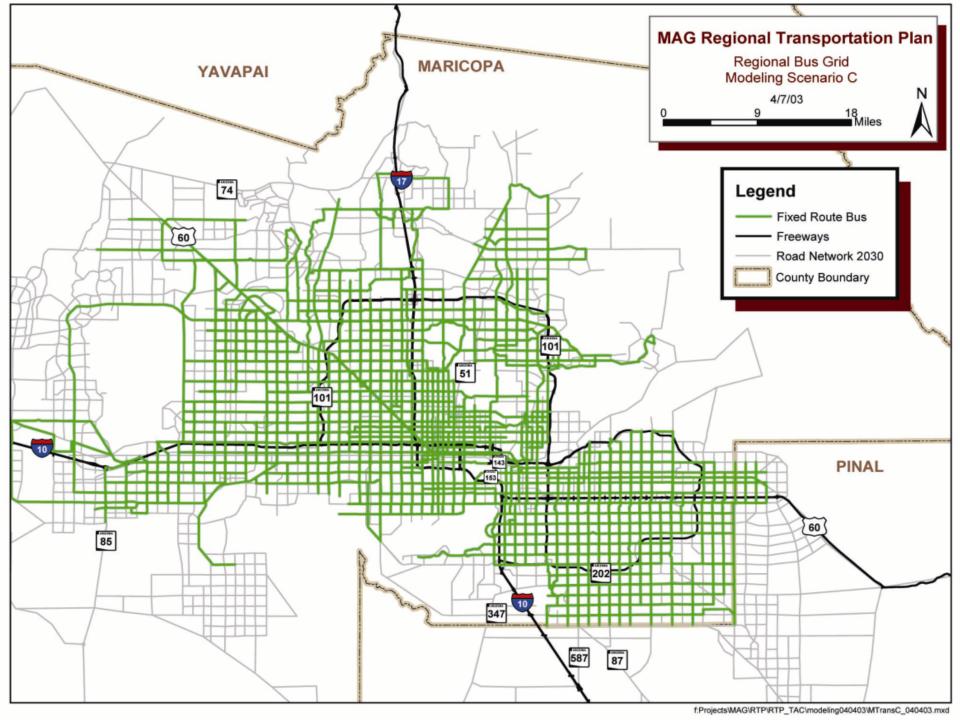


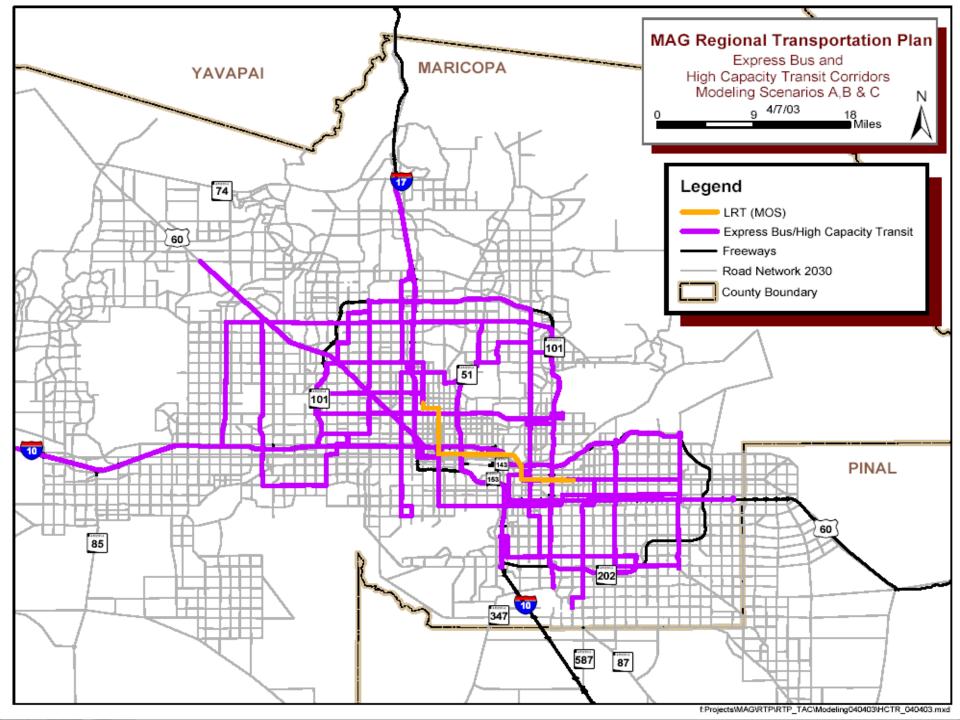


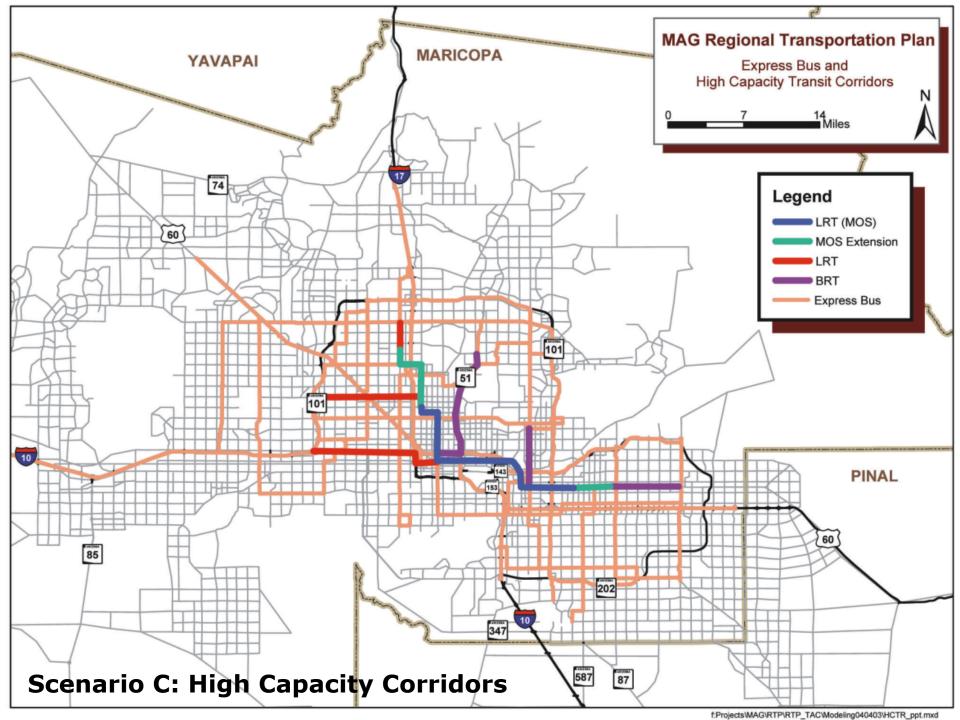
Transit Improvements











MAG Regional Transportation Plan Process

	The regional trainsportation of the region o																	
	2003								2004									
Task Name	Jan	Feb	Mar	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	April	May	
Public Involvement																		
Throughout Process																		
Polling Conducted/ Legislative Strategy Set																		
Identification of Goals/																		
Objectives/Performance																		
Measures																		
Regional Town Hall on Transportation																		
Draft Alternatives																		
Intensive Public Outreach/			l -															
Input on Draft Alternatives																		
Draft Plan																		
Approval to Conduct Air Quality Analysis																		
Results of Air Quality																		
Analysis/Final Draft/ Adoption of Final Plan																		
Communicate Plan Elements																		
=																		
Election																		



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